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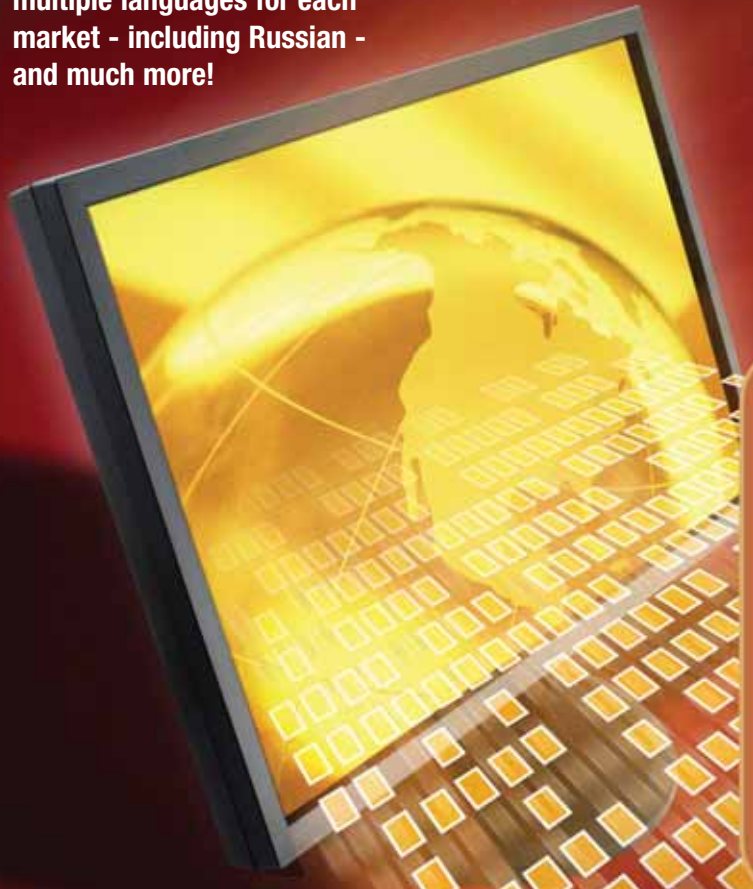

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Issue 59, May 2008

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# Dear Reader,

*It is again that May is coming and we, at RechargEast, are packing our baggage to go to Moscow. The new issue of the RechargEast shows is looming. The RechargEast shows have become traditional events in the imaging industry of Russia and Eastern Europe. Almost every specialist in the field knows that the end of spring is a good time to start networking, building partnership and getting news from the industry. All these are perfectly done during the expo days in Moscow, Russia.*

*No visas, the Russian language, no cultural differences – these are all the advantages of the Moscow show for Russian and CIS visitors. Moscow has always been considered as the only really big business center in this part of the world and it attracts thousands of businessmen from different fields to gather during such events as exhibitions and conferences. Remanufacturers and recyclers are not exceptions – they all come to Moscow, too, during the RechargEast shows.*

*In 2008 over 60 companies from Russia, CIS, Europe, Asia and Americas will be exhibiting their products and services in Moscow on May 21-23, 2008 in the All-Russia Exhibition Center, which has become the usual venue for RechargEast events in Russia.*

*So, we, at RechargEast, invite all people related to the imaging industry to come to the RechargEast show on May 21-23, 2008, in Moscow.*

*All details as well as pre-registration for visiting the show are available at:* ***www.rechargeastshow.com***

*Nikolai Yakimchuk, Editor*

***nikolai@rechargeast.com*** | *Blog:* ***www.rechargeast.blogspot.com***

*Do not hesitate to forward all interesting materials resulted from your practical experience!*

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*Materials can be submitted in an Eastern European language or in English to news@rechargeast.com*

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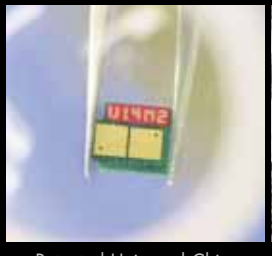
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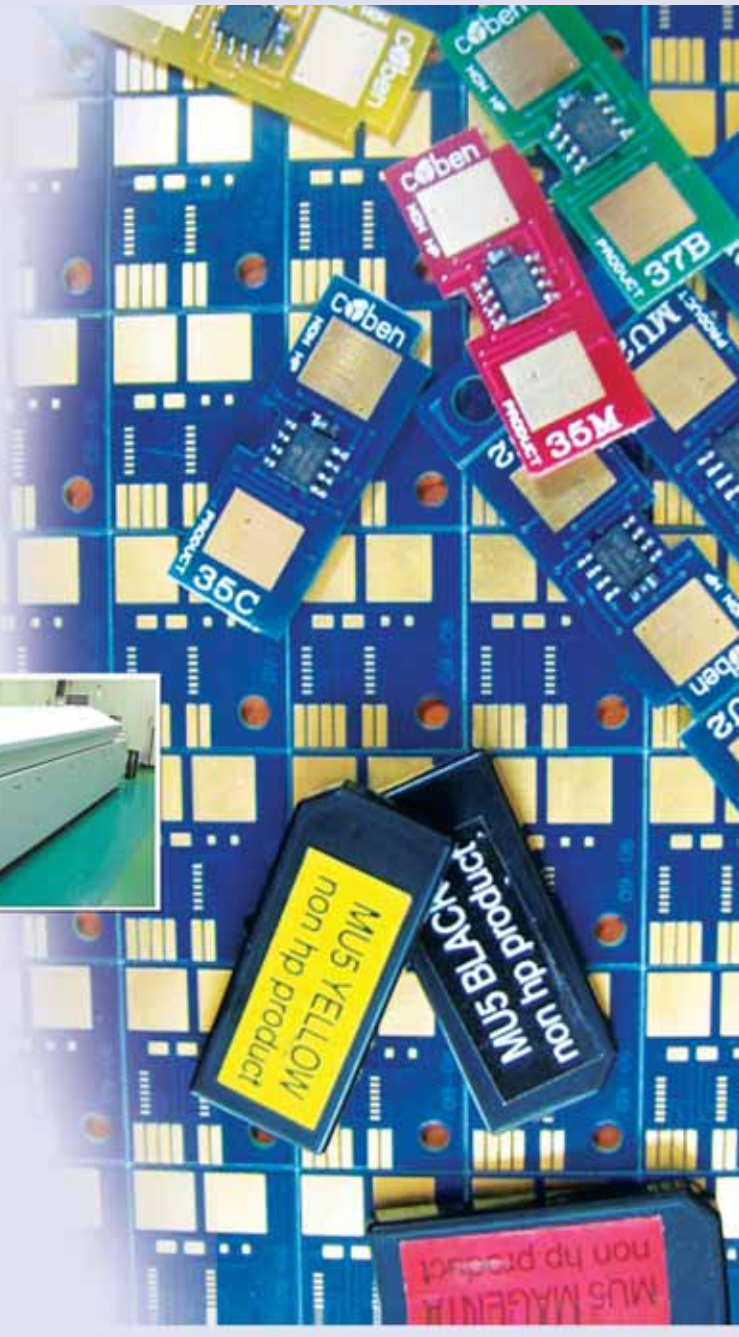


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# Remanufacturing the HP LaserJet P1505 Series Toner Cartridge CB436A

By Mike Josiah and the Technical Staff at Summit Technologies, a division of UniNet Imaging Inc.

*Mike Josiah*
*VP Technical Services*

In November 2007, Hewlett Packard released the LaserJet P1505 printer. The HP- P1505 series of laser printers are based on a 17 ppm, true 600dpi Canon engine. These cartridges use a chip that controls the toner low functions. The CB436A is rated for 2,000 pages. Physically, the cartridges look like a small 12A (1012) cartridge, but there are many differences.

The printer itself has a very small foot print. It's a nice small office/home machine. The first page out is stated to be in under 8.5 seconds from a power save mode. The memory is fixed and not expandable at 8Mb. The recommended monthly volume is from 250-1500 pages/month, but the maximum monthly duty cycle is 5,000 pages. Unlike many small printers these machines have an input tray that can hold 150 pages. A nice touch!

The system that holds the two halves of the cartridge together is completely new. The good news here is that you don't have to cut holes in the cartridge to get access to the pins!

The toner inside is also new. HP is stating that the toner now has "spherically shaped particles". We are currently investigating if this means the toner is chemical or conventional toner that has been thermally rounded. My guess is that it is thermally rounded toner, but until our investigations are finished, we won't know for sure.

In addition to the new toner, the chips have also had "intelligence added" to help aid cartridge ordering when supplies are low. Again, we are investigating the chips for

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these cartridges as I write this. I can say I have run the same cartridge now 5 times, and the chip has not shut the printer down. Just the toner low features are not working.

The printer when new comes with a starter cartridge that is rated for 700 pages at 5% coverage, so your customers will be coming to you fairly quickly! The starter cartridges and replacement 35A (1500 page) cartridges are physically the same so you can make a "High Yield" cartridge from the starter. (If you can call 1500 pages high yield!)

So far there are four printers based on this engine. The P1000, the P1006, the P1007 and the P1008. At the time of this writing, only the P1006 has been released. The other models are referred to in the service manual.

Cartridge troubleshooting as well as running test pages, cleaning pages and some simple printer troubleshooting will be covered at the end of this article.

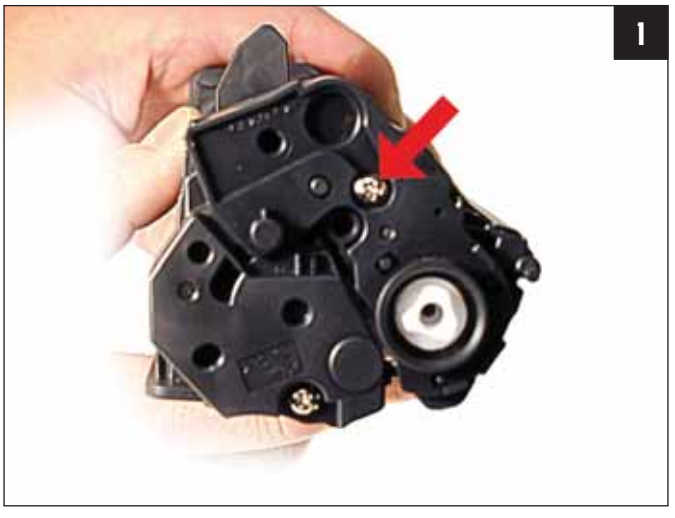
## SUPPLIES REQUIRED

- 100g (Preliminary weight) HP-P1505 toner, (Unique to this series!)
- New Drum (Unique to this series)
- Wiper Blade (Unique to this series)
- Dr. Blade (Unique to this series)
- Magnetic roller (Unique to this series)
- Sealing Strip (Unique to this series)
- Cotton Swabs
- Isopropyl Alcohol
- Drum Padding Powder
- Conductive Grease

## TOOLS REQUIRED

- Phillips head screw driver.
- Small Common screw driver
- Needle nose pliers
- Jewelers Screwdriver set

1) With the handle facing you, Remove the Right side screw and end cap from the cartridge. Be careful of the drum cover spring! Remove it with the end cap. See Figures 1 & 2


1

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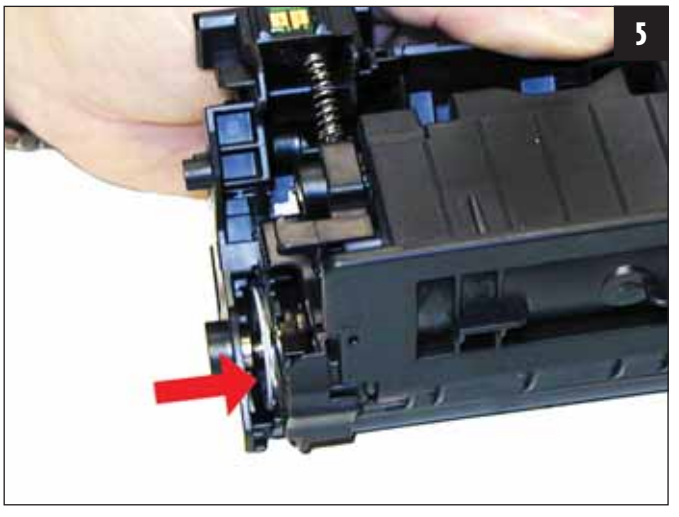
2) With the pair of needle nose pliers, release both the hopper tension springs. See Figures 3 & 4.

3

4

3) Slide the waste/drum section over to the left side. Separate the two halves. See Figures 5 & 6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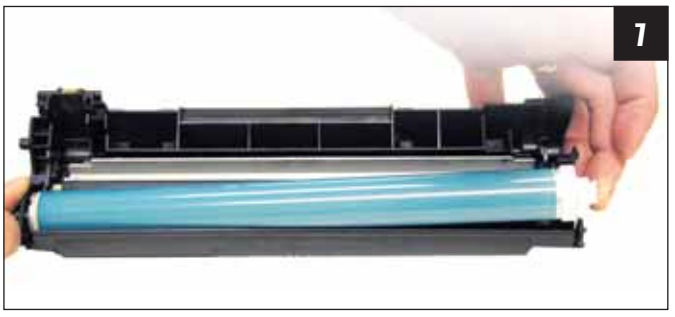
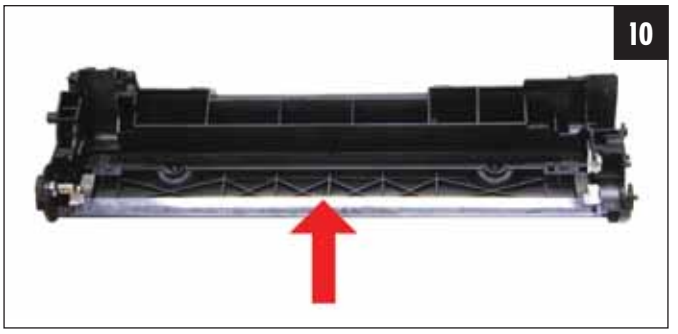
4) On the waste/drum section, lift the drum up from the gear side. Twist and remove from the hopper. See Figure 7

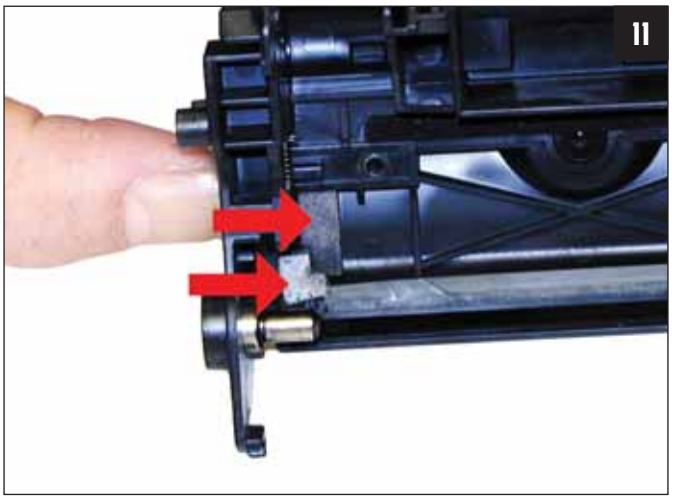



5) Remove the PCR and clean with your standard PCR cleaner. See Figure 8

6) Remove the two screws and the wiper blade. See Figure 9

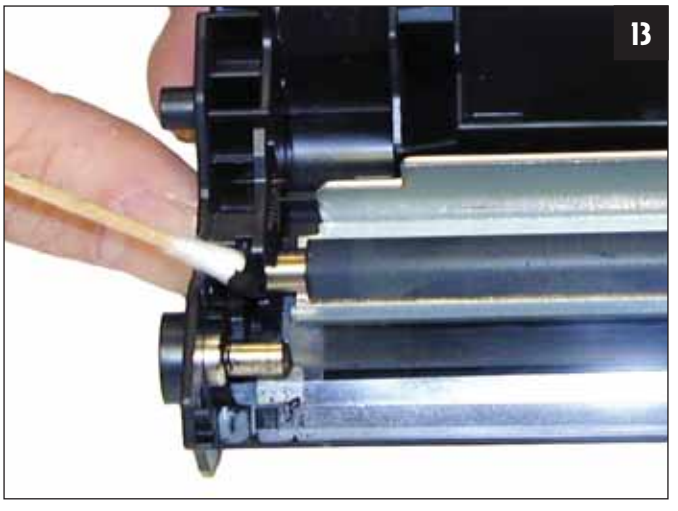
7) Clean out all the waste toner from the hopper. Be careful not to damage the recovery blade located next to the wiper blade. If this blade is bent in any way, the cartridge will leak. Make sure the wiper blade foam seals are clean. See Figures 10 & 11




8) Coat the new/cleaned wiper blade with your preferred lubricant. Install the wiper blade and 2 screws. See Figure 12

9) Install the cleaned PCR. Place a small amount of conductive grease on to the black holder side of the shaft. Just a small amount of grease is more than sufficient. See Figure 13



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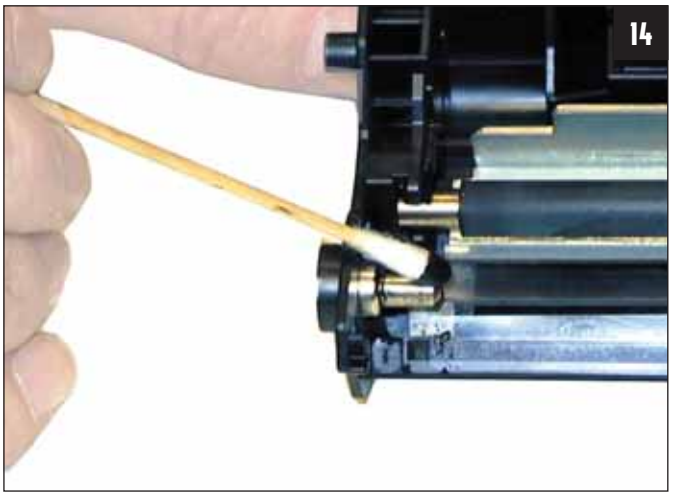
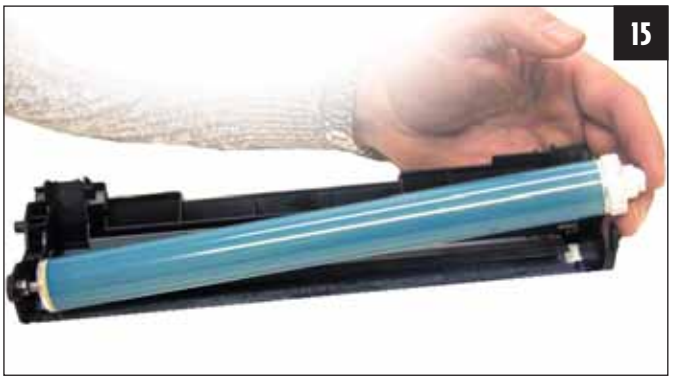
10) Place another small amount of conductive grease on to the metal drum axle. See Figures 14

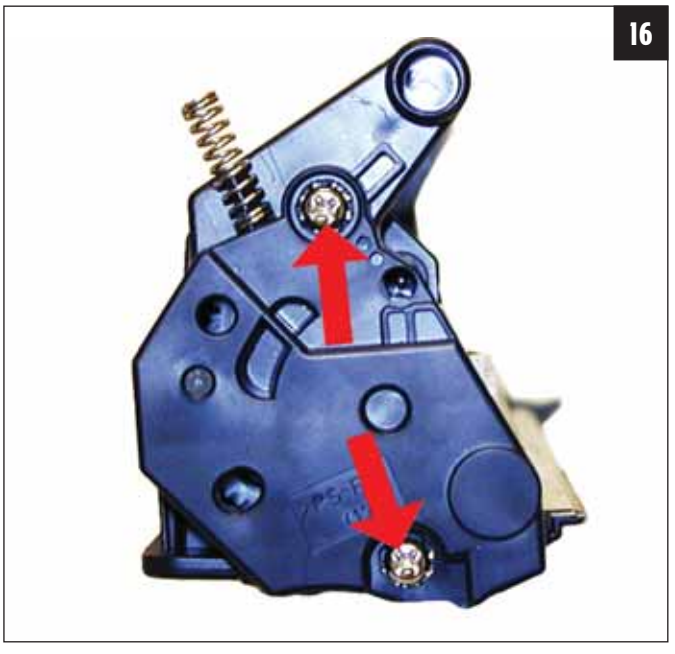



11) Install the new/cleaned drum hub side first. See Figure 15

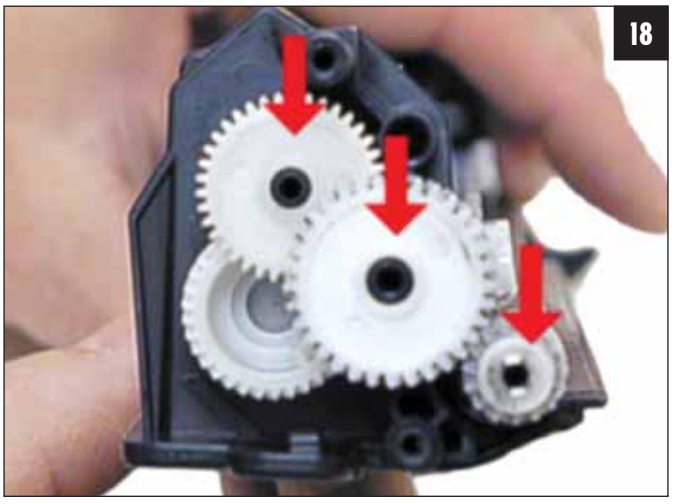



12) Place the waste/drum section aside.

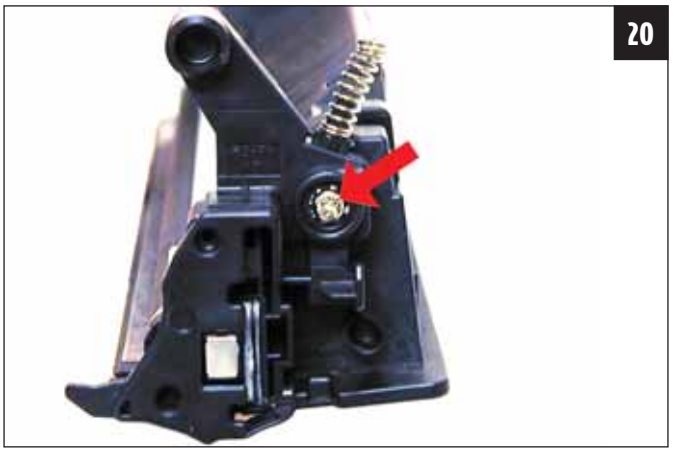
13) On the toner supply chamber right side, Remove the two screws and end cap. Note that these screws have lock washers. See Figures 16 & 17



14) Remove the gears from the hopper as shown, Leave the large auger gear in place. See Figures 18 & 19



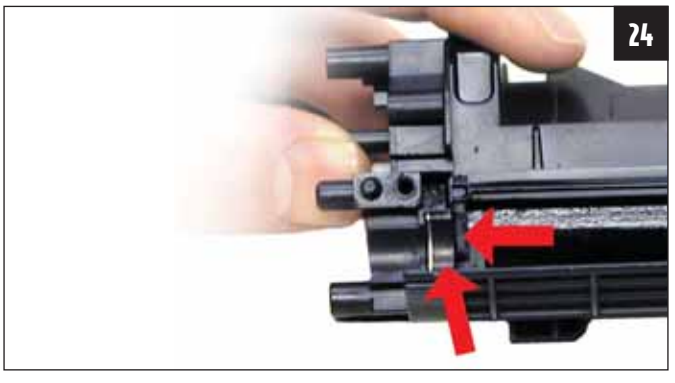
15) Remove the single screw and end from the opposite side. See Figure 20




16) Remove the magnetic roller assembly. Be careful of the bushings! They are very fragile. See Figures 21 & 22

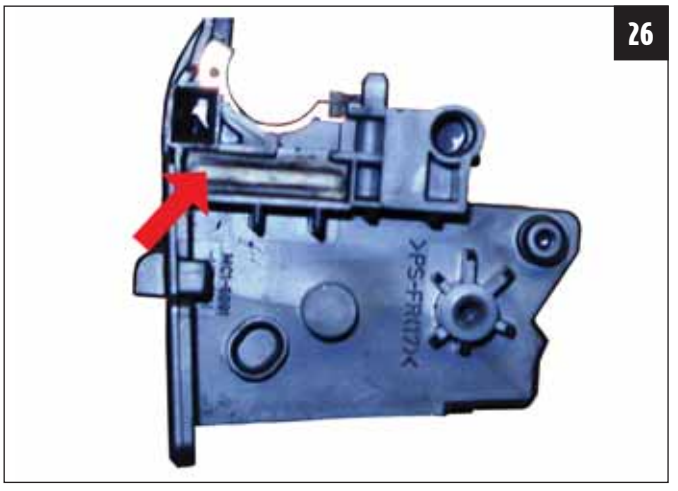
17) Remove the doctor blade and two screws. See Figure 23

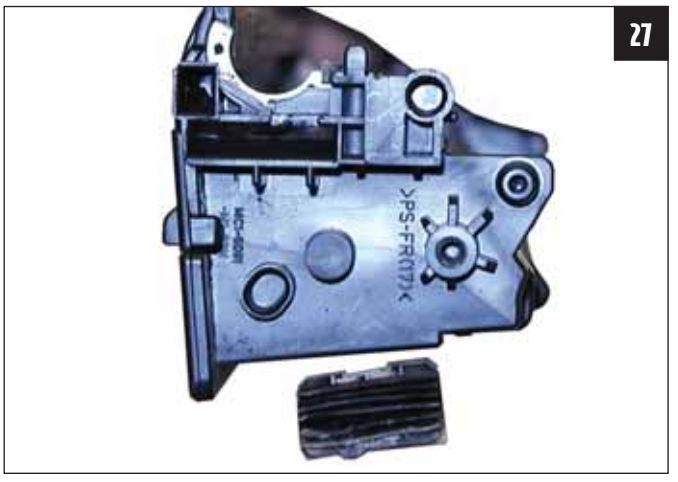
18) Clean out all the remaining toner from the hopper. Make sure the magnetic roller seals and the doctor blade seals are all clean. See Figure 24



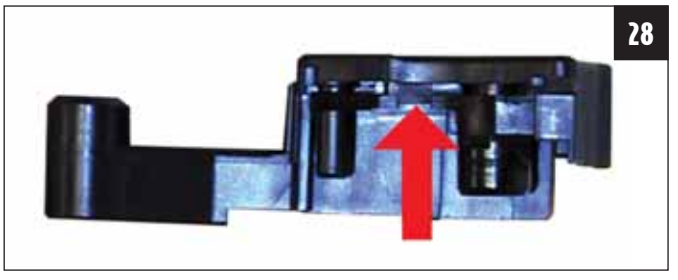

19) Fill the hopper with 100g P1006 toner. See Figure 25

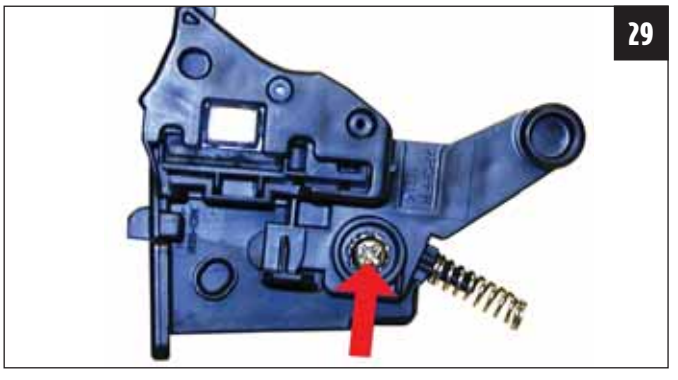
20) When a seal becomes available, remove the seal port plug, and install the seal. Bring the tail out through the seal port hole. Install the plug. See Figures 26 & 27



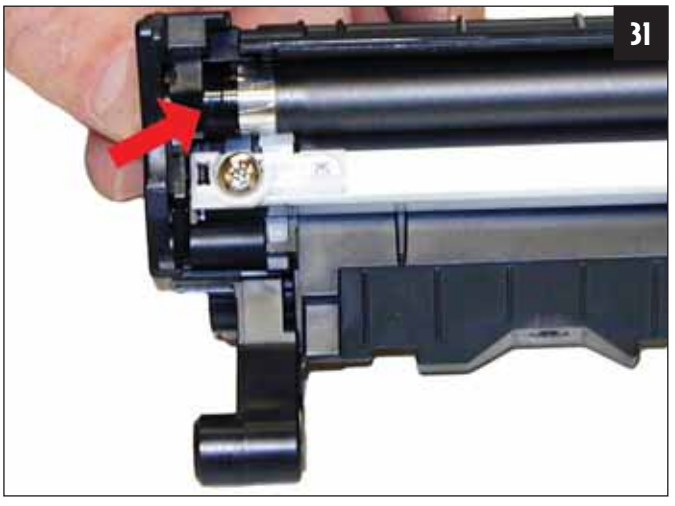

21) Install the left side end cap and screw. Make sure the small contact piece is installed correctly on the end cap. See Figures 28 & 29.



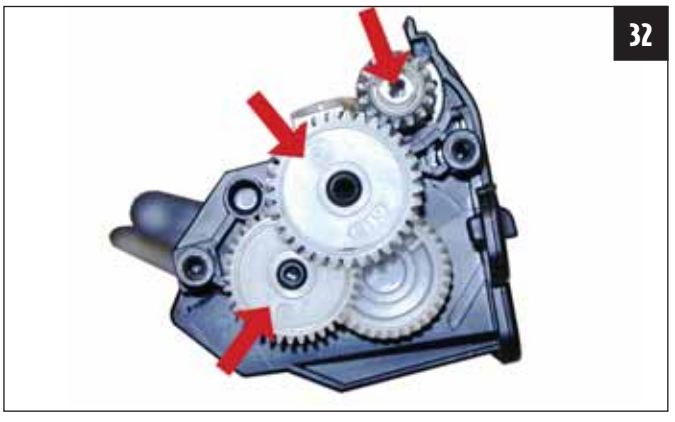



22) Install the doctor blade and two screws. See Figure 30

23) Install the magnetic roller black bushing side first. Turn the roller until the keyed end locks in place. See Figure 31

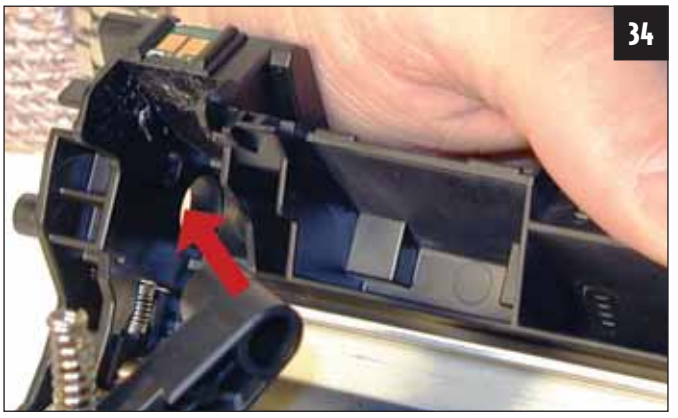


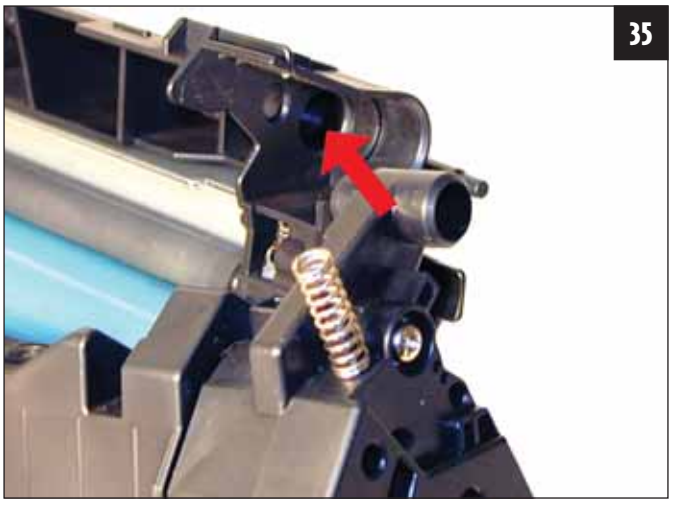

24) Install the gears as shown. See Figure 32

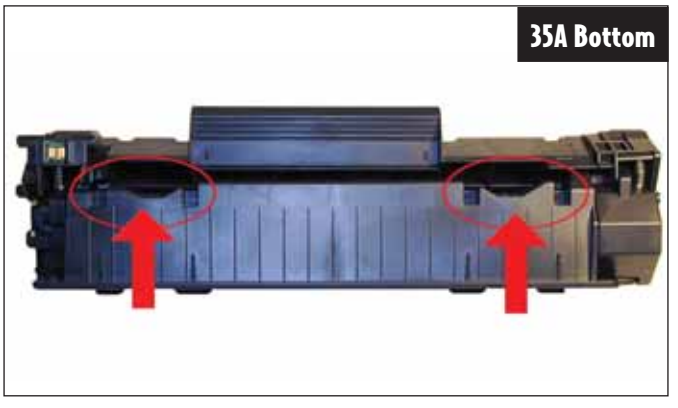



25) Install the end cap and screws. See Figures 33

26) Place the drum/waste hopper into the toner hopper. Slide it over so the round hinge pins fit into their respective holes. See Figures 34 & 35





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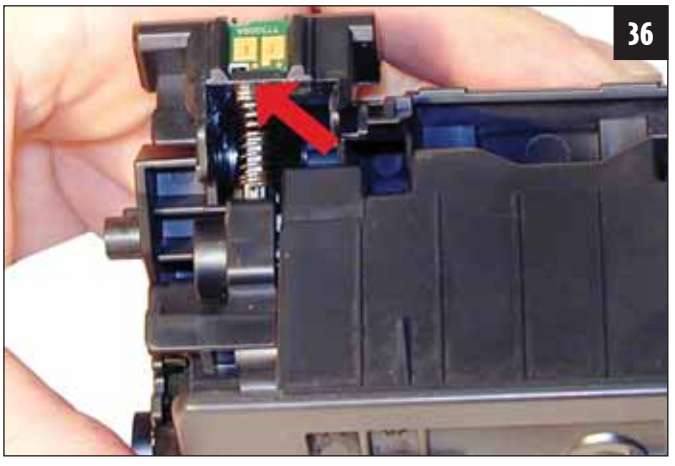
35A Left

35A Right

27) Set the hopper tension springs back in place. See Fig. 36 & 37

36



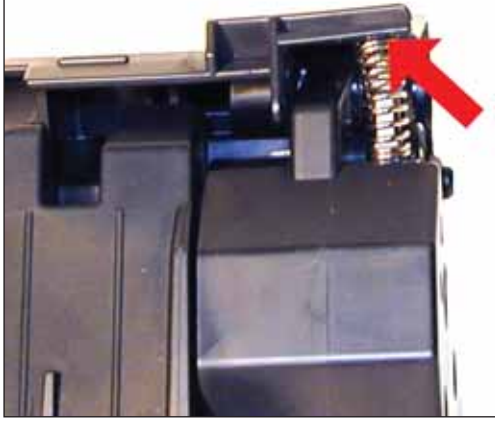
36A TOP

36A Bottom

36A Left

36A Right

37



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# Speciality Rollers

## Model List / Made in Korea

### Doctor Blade made in Korea

- HP 4600
- HP 2600
- HP 3700
- HP 3600
- ML-1210
- ML-1710
- ML-1610
- ML-2250
- ML-3050
- ML-3560
- CLP-300
- CLP-600
- T640

### Mag-Sleeves

- AX/HP1100
- BX/EX/LX/NX/SX/PX/VX
- WX/HP8000/HP8100
- HP1200/HP1300/HP1150
- HP2100/4000/4100/2300
- HP1010/1012/1015
- HP1160/1320
- HP5000
- HP4200/4300
- HP4500(COLOR)
- HP4500(BLACK)
- HP8500(COLOR)
- HP8500(BLACK)
- HP9000
- PB9900
- NX700
- XP-5/10
- XP-15/20
- XP-17
- N24/32/40
- LP8200
- LP8400/8500
- LP8700/8900
- NEC2300
- EP-65
- EP-66
- E16/40
- HP2600
- HP5200

### Developer Rollers

- TN430/460
- TN350/2025
- DR200, DR250
- E210, 320, 230
- OPTRA S SERIES
- ML-2150
- ML-2250
- ML-1210/4500/SF5100
- ML-1710/1750
- E-310/ML-5000
- HP4600. 4700
- HP1500/2500
- HP3600/3700
- HP5500
- C900/C1900
- CLP500
- ML-1610
- HP3700/3800
- E-120
- EPL 5700/6200
- ML3560
- SCX 6320
- SCX 5312
- CLP 300
- CLP 600
- OPTRA T640

### PCRs

- E210
- ML1210/4500/SF5100
- ML-1710/1750
- ML-80
- ML-5000/ML6060
- AX/HP1100
- HP1200
- HP2100/HP4000
- HP5000
- ML-2150
- ML-2250
- ML-1610
- EX
- E-16/40
- HP2600
- HP3700/3800
- E-120
- ML3560
- HP4700
- SCX6320
- SCX5312

### Supply Rollers

- TN430/460
- HP4500
- ML1210/4500/SF5100
- ML1710/1750
- ML2150
- ML2250
- HP1500/2500
- HP3500/3700
- HP4600/4650
- HP5500
- C900/C1900
- CLP500
- ML-1610
- E230/330
- ML6060
- TN350
- HP3700/3800
- E-120
- ML3560
- CLP 300
- CLP 600

*New Products

- ML1630 DR
- ML1630 PCR
- ML1630 SR
- HP P1005 PCR

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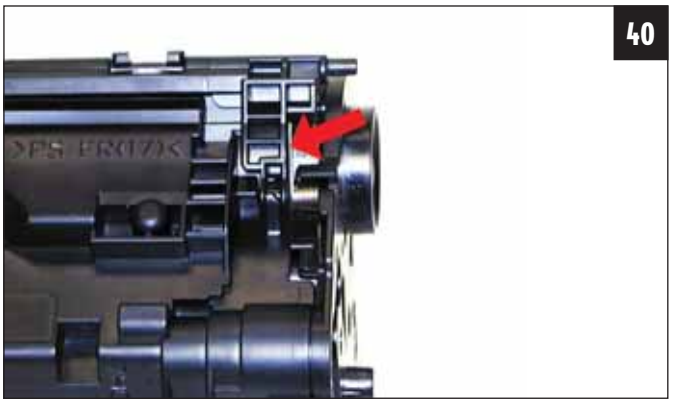
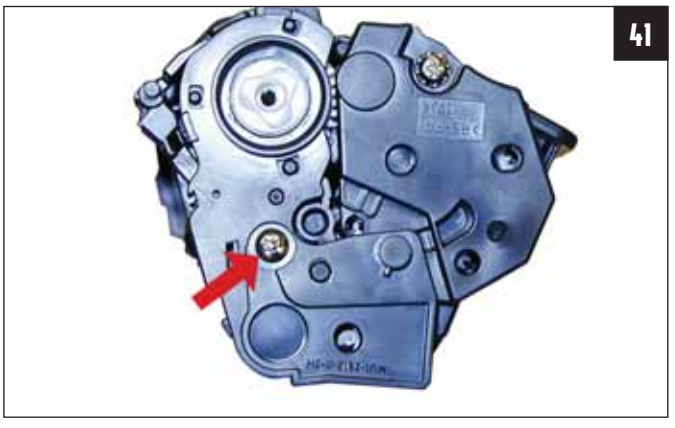
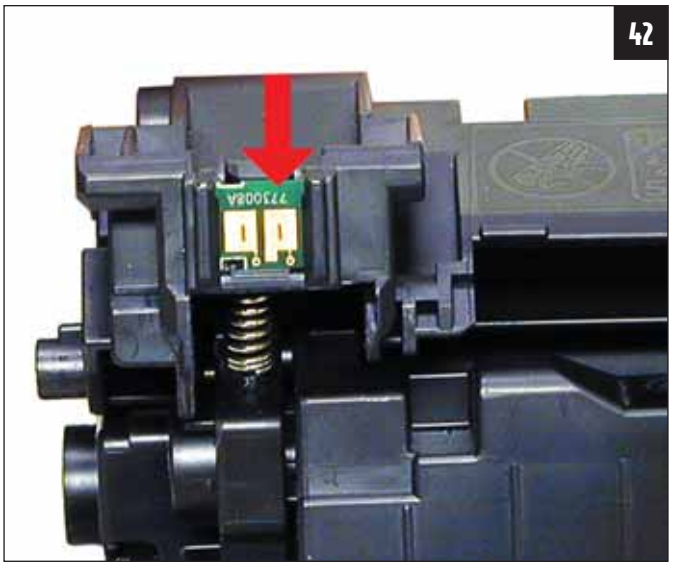
28) With the drum cover spring as shown on the end cap, install the end cap. Lift up the tail of the spring to fit onto the hopper. See Figures 38 & 39

29) Lift up the drum cover sprint tail to fit as shown on the drum cover. Install the screw into the cover. See Figures 40 & 41




30) Replace the chip. See Figure 42




## REPETITIVE DEFECT CHART

OPC Drum: 75mm
Magnetic roller: 31mm
PCR: 27mm

## RUNNING TEST PAGES

Test pages must be run from the P1006 menu. Access the Printer Preferences menu, then Services, and Information pages. There are three test pages that can be selected. The Demo, Config, and Supply Status Page.

## RUNNING THE CLEANING PAGE

The cleaning page for these machines can only be run from the Printer menu. HP recommends that for best results, a transparency be used. If a transparency is not available, user copier grade paper with a smooth surface.

To run this page, Access the printer preferences. Click on Device Settings. Press Start. The cleaning cycle takes up to 2 full minutes. The page will start and stop. Do not turn the printer off until the cleaning page has finished printing.

## PRINTER TROUBLESHOOTING

As with all low cost machines these days, this series of these machines do not have a display panel. All the error codes consist of different pattern of the two lights. Information on the lights is very poor. Even the service manual is terrible.

**Top light blinking:** Cartridge door open, no print cartridge installed, or there is a paper jam.

**Both lights on:** Fatal error; turn the printer off, and unplug it for 30 minutes. If the error still exists, the printer has a major problem. There is no information yet on what these problems may be. (The service manual has not been released yet).

**Both lights blinking:** A printer initialization is in progress. RCE

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# TOSHIBA THE 60th SERIES ANALOG COPIERS – THE DISPUTABLE TOSHIBA 1550 COPIER

By Vladimir Kamenov

Eng. Vladimir Kamenov, PhD

**Vladimir Kamenov, PhD,** *is a specialist in maintenance of various models of Toshiba copiers. He holds a master's degree in Precision Mechanics and a PhD degree in Applied Mechanics. His work experience includes part-time and full-time jobs as service engineer. He also lectures at the Sofia Technical University, Precision Mechanics Department, Office Equipment Specialty.*

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Tel.: +359887730384

Following the Toshiba 1360/70 copier, reviewed in the previous article, comes the Toshiba 1550 copier. As mentioned in the title, this is a much disputed model – some technicians love it, others hate it. But nevertheless this is one of the most common copiers in Eastern Europe (in Bulgaria for sure). This model is situated in the upper segment of the lower class copiers and so is designated for small to middle offices and not for copy and print centers. So the problem with this model arises whet users try to overwork it. In my practice as a service technician I have had both good and bad experience with this model.

There are users that never had any issues with the copier, other than the usual maintenance and periodical replacements of parts. These users' monthly copy-volume never exceeds 5000 to 10 000 copies. The only other issue with such machines is the dusty environment they often operate in, which causes periodical cleaning to be performed twice as often as the normal interval of 60 000 copies. So, the conclusion is that is users don't overwork their machines and provide them with regular maintenance, they will serve them longer, causing less trouble to the service technician that maintains them. Even more – given the proper maintenance the consumable replacement parts such as drums, heat rollers etc. can "live" up to twice the copy count given by the manufacturer. This is the case with the happy technicians mentioned above.

However, there are cases when everything that can go wrong with this model. This is the case with machines often overworked and poorly maintained. Such machines often operate in poor conditions (dust, humidity etc.) and are used in copy centers. They age very quickly and the mechanical parts wear very quickly too. Given the fact that many of the parts in the machine are made of plastic (a negative tendency fully developed in later e-Studio models), all this issues are a "recipe for disaster".

The good news is that if one knows the weak points of the machine and the most common places to search for wear and clean during periodical maintenance, the copier will work reliably and you will come to like this controversial model. The most common weak spots and failures of the model will be discussed in the articles to come. But first let me once more emphasize the importance of periodical maintenance and the preventive inspection check – this is the main goal of this article.

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## PERIODICAL MAINTENANCE – USEFUL PRACTICES

The manufacturer recommends the periodical maintenance to be performed at 60 000 copies, which is also the recommended service-live of most of the consumable parts in the copier:

### Inspection every 60,000 copies

(1) Preparation
• Ask the key operator about the present machine conditions and note them down.
• Before starting the maintenance work, make and retain a few sample copies for later comparison.
• Turn off the power switch and disconnect the power cord plug.

(2) The period inspection should be conducted in accordance with the PERIODIC INSPECTION CHECK LIST shown below. Perform the inspection by referring to the figures, as well as to the explanations in the Service Manual of the machine when necessary.

(3) After the inspection has been completed, plug in the machine and turn the power switch on, and confirm the general operation of the machine by making a few copies and comparing them to those made previously.

### Inspection and over-haul every 180,000 copies

(1) Replace all the consumables.

(2) Check to see if there is any damage to parts of the drive section (gear, pulley, timing belt, etc.). Replace parts on principle if damaged.

(3) Check to see if there is any damage or peeling of adhered parts (tape, Mylar, etc.). Replace any affected parts.

(4) Check to see if all the switches and sensors operate properly. Replace them if they are not operating properly.

(5) Clean the inside of the machine thoroughly.

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### Symbols used in the Periodic Inspection Check List:

| Cleaning | Lubrication | Replacement | Date |
|---|---|---|---|
| (A) Cleaning with alcohol<br>(D) Cleaning with a slightly damp cloth<br>(P) Cleaning with Pit Clean (RC60)<br>○ Cleaning with soft pad, cloth, or cleaner (vacuum cleaner) | (V) Vacuoline<br>(H) Heavy-medium oil<br>(L) Laune 40<br>**Application**<br>(SI) Silicone oil<br>(M) Molytherm<br>(W) White grease (Molycoat) | (20) Every 20,000 copies<br>(40) Every 40,000 copies<br>(60) Every 60,000 copies<br>Same thereafter<br>(△) Replace in event of deformation or other damage | Customer's Name<br>Machine No.<br>Inspector<br>Remarks |

PERIODIC INSPECTION CHECK LIST

*K=1,000

| Section | Item to check | Clean at 60*K copies | Lubricate at 60*K copies | Replace at × *K copies | Check while ON | Remarks |
|---|---|---|---|---|---|---|
| Cleaner | 1 Entire Unit | ○ | | | | |
| | 2 Main blade | ○ | | (60) | ○ | *1 (See page 2-6) |
| | 3 Toner bag | | | (20) | | Key operator item |
| | 4 Recovery blade | ○ | | | | *2 |
| | 5 Drum bushings | ○ | | | | |
| Drum | 10 Drum shaft | ○ | | | | |
| | 11 Drum | ○ | | (60) or more | | *3 |
| Original table | 12 Glass | (A) | | | | |
| | 13 Original cover | (A) | | | | |
| Optical system | 20 Mirror 1 | ○ or (A) | | | | |
| | 21 Mirror 2 | ○ or (A) | | | | |
| | 22 Mirror 3 | ○ or (A) | | | | |
| | 23 Mirror 4 | ○ or (A) | | | | |
| | 24 Mirror 5 | ○ or (A) | | | | |
| | 25 Mirror 6 | ○ or (A) | | | | |
| | 26 Slit glass | ○ or (A) | | | | (both sides) |
| | 27 Reflector | ○ or (A) | | | | |
| | 28 Lens | ○ or (A) | | | | |
| | 29 Exposure lamp | | | (60) | ○ | |
| | 30 Auto exposure sensor | ○ | | | ○ | |
| | 31 Reproduction ratio mechanism (mirrors) | | | | ○ | |
| | 32 Reproduction ratio mechanism (lens) | | | | ○ | |
| | 33 Sliding sheets (front/rear) | (A) | | (60) | | |
| | 34 Air filter | ○ | | (40) | | Replace when heavily stained |
| | 35 Ozone filter | ○ | | (60) | | |
| Chargers | 40 Charger case | ○ | | (40) | | |
| | 41 LED eraser array | ○ | | | | |
| | 42 Charger wire | ○ | | (60) (V) | ○ | |
| | 43 Terminal contact | ○ | | | | Use sandpaper as required |
| | 44 Grid | (A) | | (60) | | |
| | 45 Discharge lamp | ○ | | | | |
| Developer unit | 50 Entire unit | ○ | | | | |
| | 51 Developer material | | | (60) | | *4 |
| | 52 Rubber seal | ○ | | (60) | | |

*K=1,000

| Section | Item to check | Clean at 60*K copies | Lubricate at 60*K copies | Replace at × *K copies | Check while ON | Remarks |
|---|---|---|---|---|---|---|
| Paper feeding section | 60 Pick-up roller | (A) | | (40) | | |
| | 61 Paper feed roller | (A) | | (40) | | |
| | 62 Separation roller | (A) | | (40) | | |
| | 63 Aligning roller | (A) | (L) | (40) | | *10 |
| | 64 Paper guide | ○ | | | | |
| | 65 Brush | ○ | | (40) | | |
| | 66 Transport guide section | ○ | | | | |
| | 67 Transport roller (left) | (A) | (L) | (40) | | MY-1004 *9 |
| | 68 Transport roller (right) | (A) | (L) | (40) | | MY-1004 *9 |
| Fuser unit | 70 Teflon roller (upper) | (P) | | (60) | | *5 |
| | 71 Heat roller entrance guide | (P) | | | | |
| | 72 Rubber roller (lower) | (P) | | (60) | | *6 |
| | 73 Cleaning felt roller | | | (60) | | *7 |
| | 74 Thermistor | ○ or (P) | | (40) | | |
| | 75 Scrapers (for heat rollers) | (P) | | (40) | | *8 |
| | 76 Heat roller exit guide | (P) | | | | |
| | 77 Exit roller | (A) | | | | |
| | 78 Cleaning blade | ○ | | | | |
| Drive system | 80 Drive gear (teeth) | | (M) | | | |
| | 81 Stud of drive gear | | (L) | | | |
| Sorter kit | 82 Shaft and bushing | | (L) | | | *11 |

### 1. Optical section cleaning

1.1 Remove screws A and the original glass retaining plate. Remove the original glass and clean it both sides with window cleaner. Note – do not remove screws B. They are used for correction of image skew and registration of the copy image.

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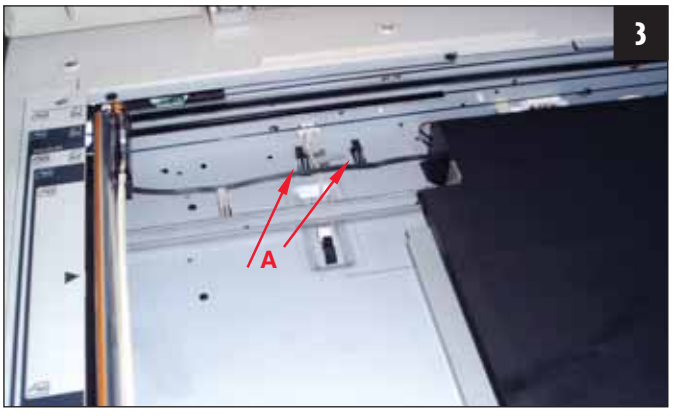
1.2 Remove screw C and the L-shaped plate with it. Remove the lens cover D, carefully in the direction E, careful not to break the drive tooth belt of the lens assembly and the carriage drive wire. See figure 1.

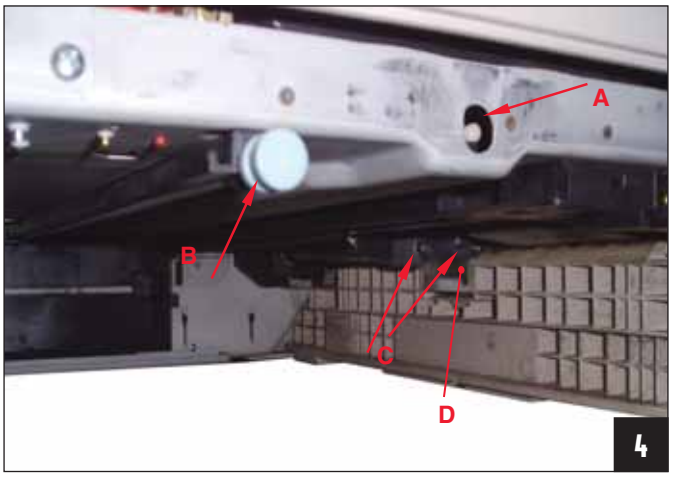
1.3 Clean with dry lint free cloth mirrors 1, 2, 3, 4 and 5 as well as the expo-lamp reflector A.
1.4 Clean with isopropyl alcohol the sliders B and C of the carriage 1 and 2. Note – be careful not to bend carriage 3, because it is mounted only to the rear side of the copier. Bending will result in copy image skew. See figure 2.

1.5 Inspect the ends A of the process unit holder that protrude from the optical unit bottom. If they are broken the process unit will move from side to side causing image distortion and excessive wear of the main drive gear assembly. See figure 3.




## 2. Remove the paper tray.

2.1 Remove the blue knob A of the transfer corotron cleaning rod.
2.2 Pull the knob B, remove and clean the waste toner container. Put it back into place.
2.3 Remove the two plastic clips C, holding the pick up and feed rollers. Remove the rollers, clean them with rubber cleaning fluid from the accumulated paper dust and dirt and inspect the surface for wear. A normal surface should be rough, if not – replace the rollers. Reassemble the rollers.
2.4 Inspect the color of the separation roller D. The color is an indicator of the age of the roller. A new roller should be blue. For some strange reason they tend to become green as they age. Note - if you have problems with double sheet feeding and the color is green, you know what to do. See figure 4.




## 3. Main body of the machine

3.1 Remove the wire A by squeezing it in B. Remove screw C and pull out the process unit. See figure 5.

3.2 Remove screw A and the cover B of the registration assembly. Underneath unplug one connector and remove a screw.
3.3 Remove screw C and pull out the 6th mirror cover. Clean it with window cleaner as well as the mirror itself.
3.4 Push gently the tab D and carefully remove the transfer/separation corotron assembly.

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| HP 1200/1220/1000 | X | X | X | X | X | X |
| HP 1160/1310 | X | X | X | X | X | X |
| HP 1300 | X | X | X | X | X | X |
| HP 1005/1006/1505 | X | X | TBA | TBA | TBA | |
| HP P2015/2014/M2727 | X | X | X | X | X | X |
| HP 1100/Canon AX | X | X | X | X | X | X |
| HP 1600/2600 | X | X | X | X | X | X |
| Samsung 1610/1710 | X | X | X | X | X | X |

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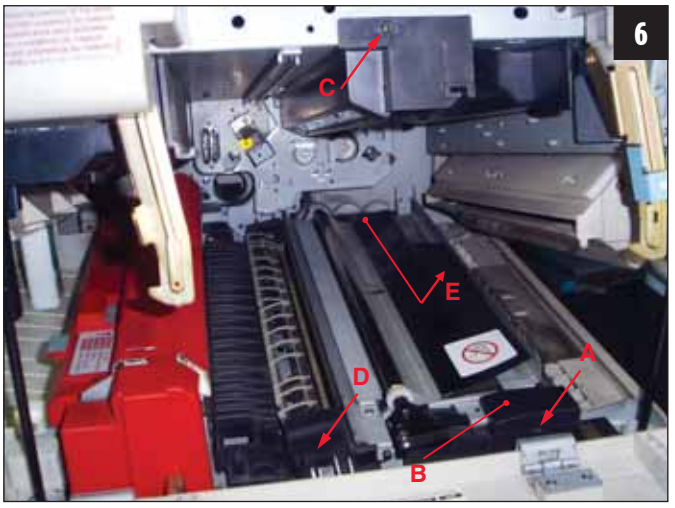
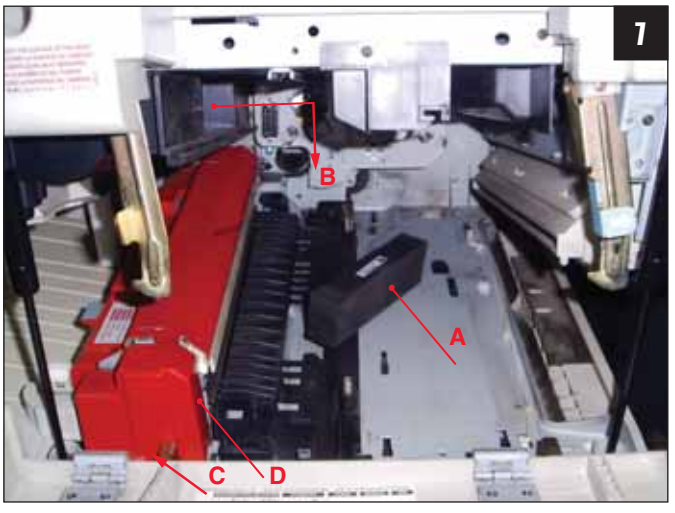
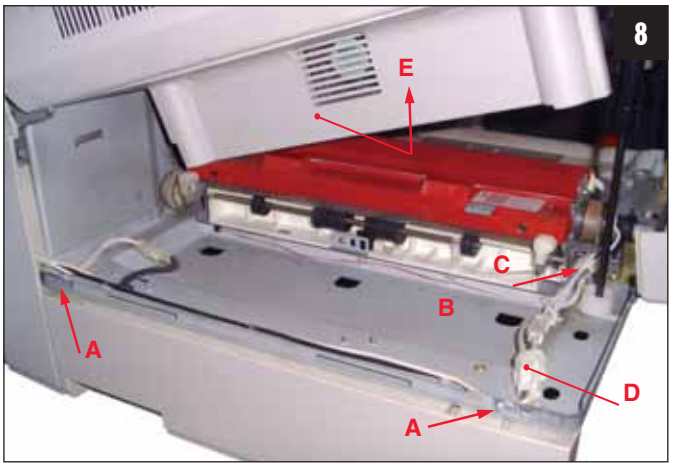
3.5 Remove the registration assembly by pulling it out in direction E. See figure 6.



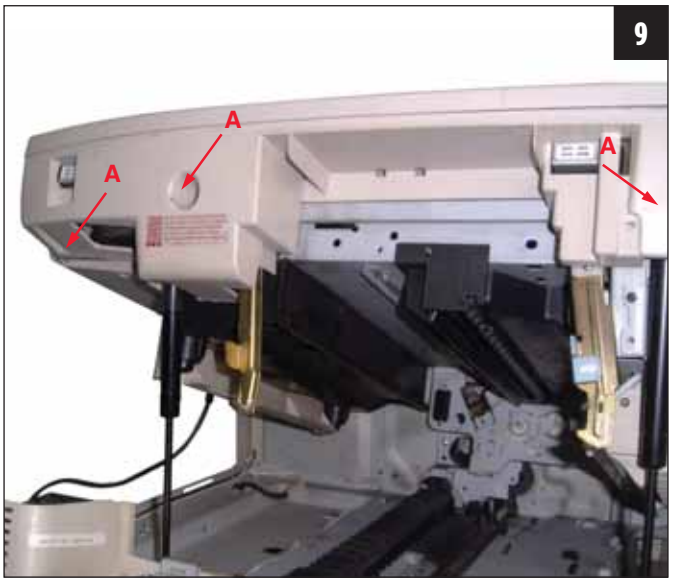

3.6 Gently remove the ozone filter A in the direction B and clean it with vacuum cleaner.
3.7 Remove screw C, remove the cover D and remove the screw underneath. Note – note the hole the screw is fitted in (there are two holes –a round one and a prolonged one the right is the round). See figure 7.



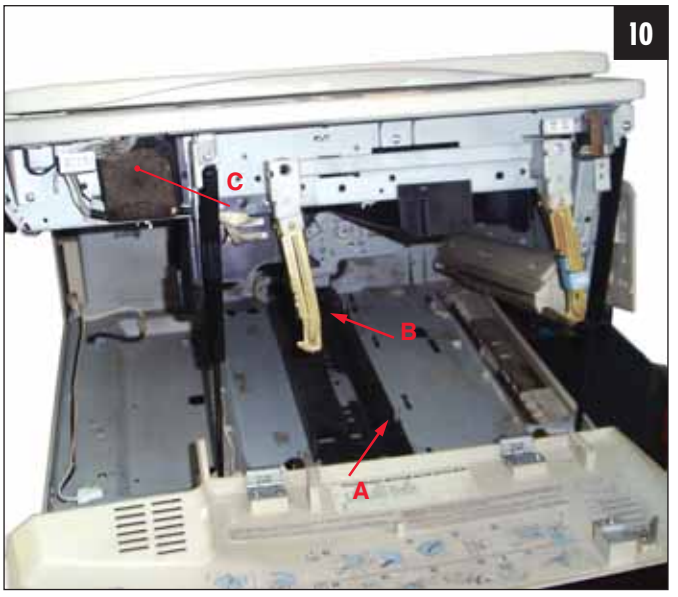

3.8 Remove screws A and the exit/fuser cover.
3.9 Unplug connectors B, C and D and remove the fuser unit by pulling it out in direction E. See figure 8.




3.10 Remove 3 screws and the cover A. See figure 9.




3.11 Remove corotron assembly spring A.
3.12 Clean the inside of the machine with vacuum cleaner. Note – clean thoroughly the transfer corotron assembly terminal B from dust and toner.
3.13 Inspect the inside of the machine around the lower and upper drive assemblies. Look for broken teeth by hand cranking the assemblies.
3.14 Clean the filter C of the optical fan with vacuum cleaner as you hold it with hand, because it is loosely attached. See figure 10.




3.15 Rotate the machine and remove two screws to detach the rear cover.
3.16 Clean the rear optical fan filter A the same way as the front one.
3.17 Clean the rear side of the machine from toner and dust with vacuum cleaner, especially around the waste toner discharge assembly B. See figure 11.

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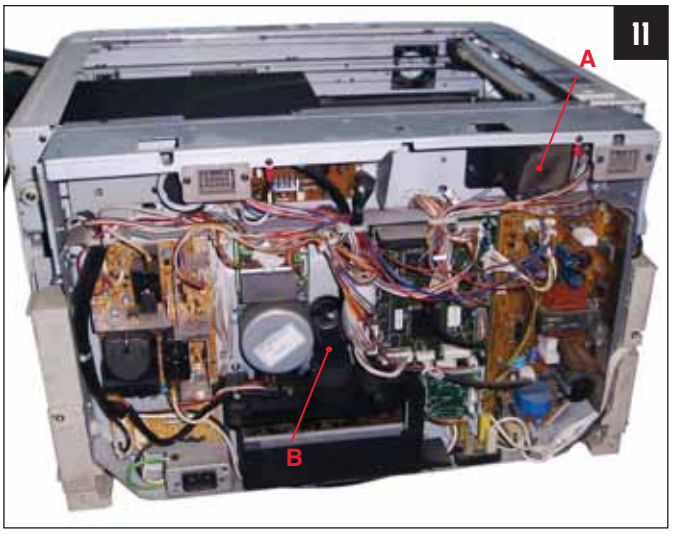
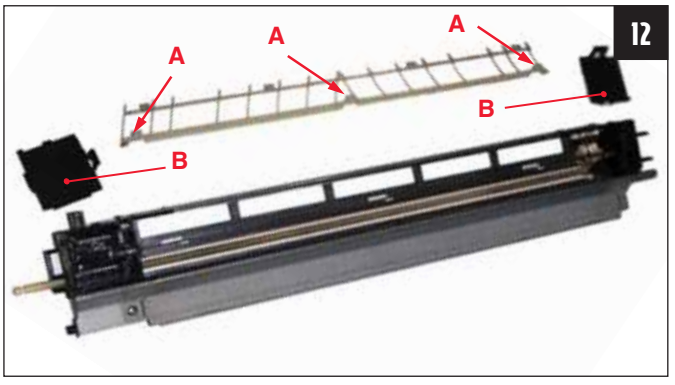
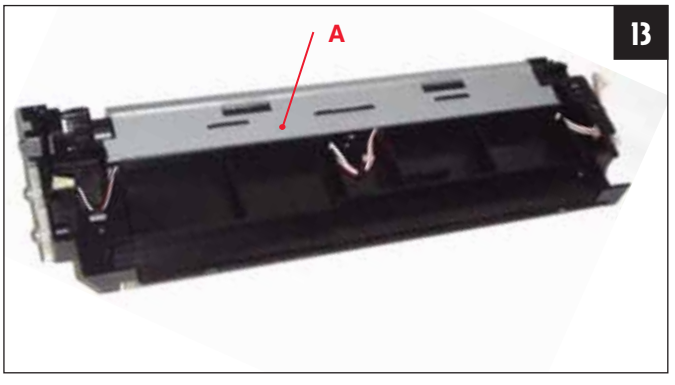


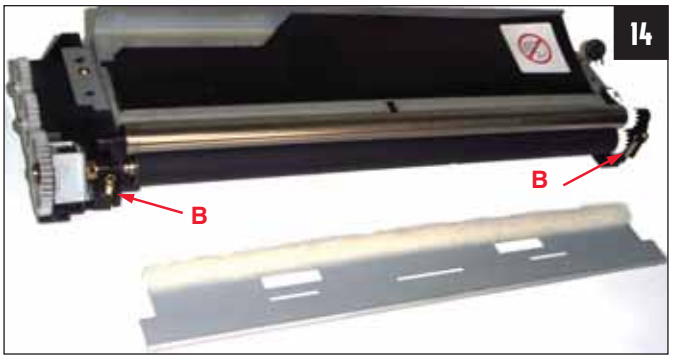

## 4. Cleaning the modules of the machine

4.1 Push three tabs A and remove the separation charger grid. Remove the covers B and C. Clean with vacuum cleaner the terminals of the corotron assembly.
4.2 Using cotton swabs moistened with window cleaner, wipe the corotron housing as well as the wires themselves. See figure 12.



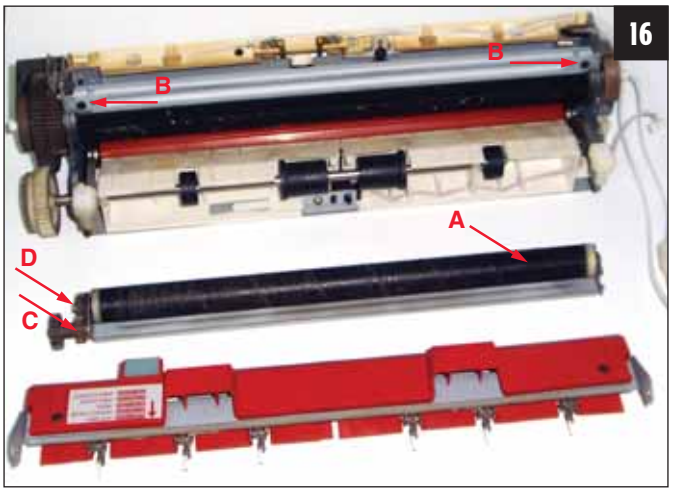

4.3 Turn the registration assembly upside down and remove the cleaning brush A. Clean it with vacuum cleaner. Inspect the hooks B of the registration roller springs, if they are broken, that will lead to defects which will be described in the articles to follow.
4.4 Clean the rubber registration roller with rubber cleaning fluid. This is important for the correct aligning of the original to copy beginning. See figure 13 and 14.




4.5 Remove screws A and B and pull out the fuser cleaning roller cover and the upper heat roller separation fingers assembly. See figure 15.

4.6 Clean the tips of the separation fingers with acetone. Remove the cleaning roller assembly A and remove the roller itself. Make sure not to loose the two bushings. Clean the roller with vacuum cleaner by applying moderate force to the roller. Note – be careful when you clean the ends of the roller not to unwrap the cleaning felt wound around the roller. If there is so much toner you can't clean with vacuum cleaner moisten a cloth with acetone and rub the roller. Apply moderate amount of silicone oil to the roller felt.
4.7 Remove screws B and remove the fuser roller cleaning blade. Clean the tip of it with acetone.
4.8 Remove gears C and D, clean the teeth with brush and using a cotton stab with acetone clean the gear C shaft and the hole of the gear itself. Note – do not apply any lubricant to the gear's shaft. See figure 16.



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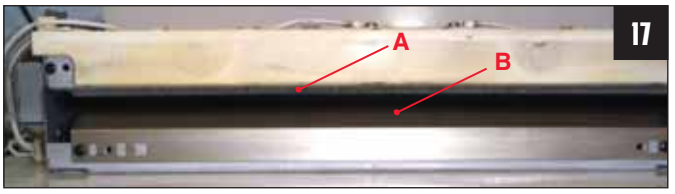
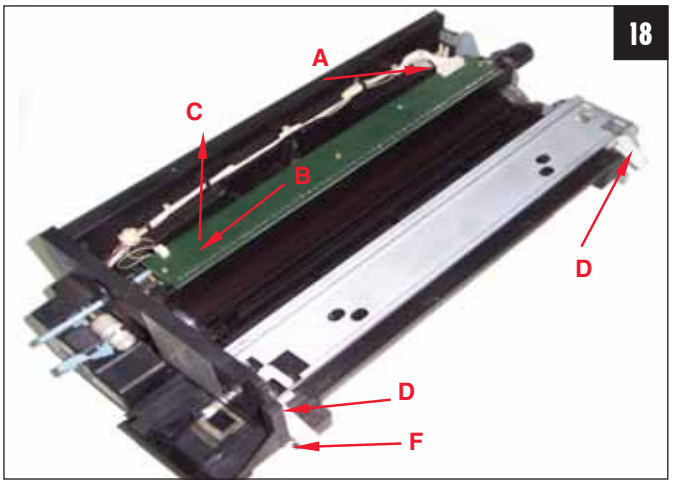
4.9 Clean with acetone the upper A and lower B guide plates of the fuser unit. See figure 17.

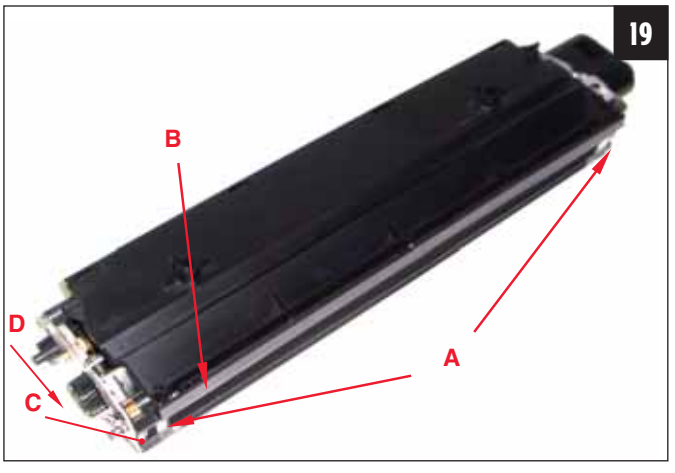



## 5. Image process unit maintenance

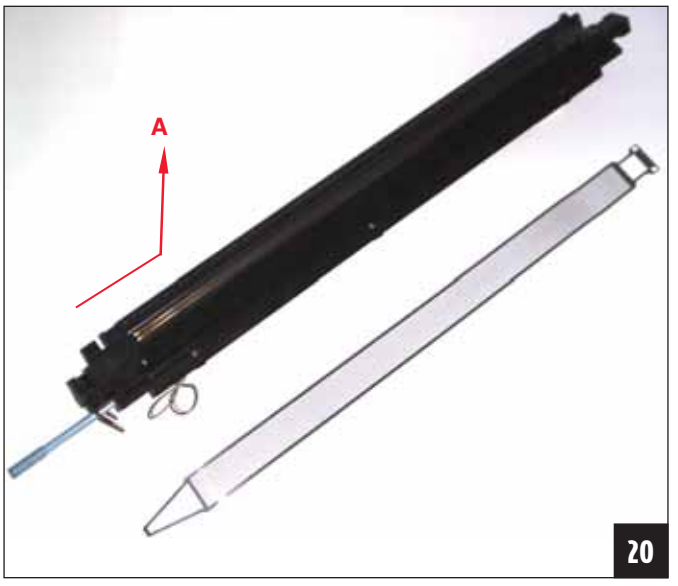
5.1 Unplug the connector A. First push the main charger in the direction B and the lift it careful not to scratch the OPC Drum. Pull out the assembly in direction C.
5.2 Lift the tabs D and unplug connector E. Pull out the developer unit in direction F. See figure 18.




5.3 Inspect the developer unit. Check if the roller guides A are rotating freely. Check if the cover seal B is on top of the side seals of the developer roller. Clean with vacuum cleaner the accumulated toner under the magnetic roller as well as around the side seals C.
5.4 Check if the unit is mechanically sound by rotating the input gear D in the direction shown. If there is too much torque needed to turn it, this is an indicator that there are problems in the unit which will be discussed in following articles. See figure 19.




5.5 Remove the main charger grid by applying force in direction A. Clean the grid by washing it with window cleaner fluid. Note – when drying it watch for small particles remaining on the grid. Brush them off if necessary.
5.6 Using cotton swabs with window cleaner wipe the charger's housing and the wire itself.
5.7 Clean with alcohol the LED eraser/discharge array. See figure 20.



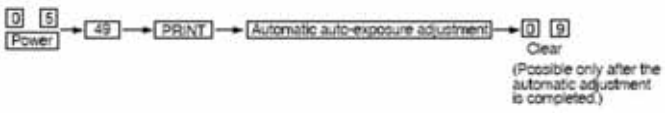

Reassemble the modules of the machine in reverse order and mount them back into the machine. Turn the machine on and make sure it enters into ready condition. Make a copy of the test target designed to adjust the copy density. Make copies in all exposure modes – Auto, Manual (middle position), Dark (max. right position), Light (max left position) and Photo. If the copy density in unsatisfactory you should make adjustments in the following order.

### IMAGE DENSITY ADJUSTMENTS

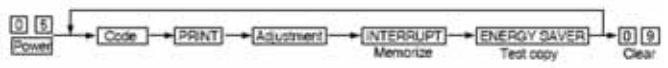
1. Enter the adjustment mode AJ by holding together numerical buttons 0 and 5 and turning on the machine.

2. Begin with adjustment of the copy density in the middle position. Make a test copy by pressing the "Energy saver button". If the copy is too light or too dark change the value of code 1 (the higher the value the lighter the copy density). The procedure is the following: enter 1 and press the Start button. Change the value and store it by pressing the Interrupt button. Make a test copy and readjust if necessary.

3. Execute the auto exposure auto adjustment procedure – place a couple of white A3 sheets on the original glass and close the platen. Enter code 49 and press the start button. After completion make a test copy. If necessary change manually the auto exposure density by changing the value in code 5.




4. Adjust the density of darkest and lightest mode using the same procedure as in 2. The codes are respectively 10 and 9.
5. Adjust the density of the photo exposure – code 14.
6. Exit the AJ mode by pressing the o and 9 buttons or turn off the machine.




| Adjustment sequence | Exposure mode | Reproduction ratio | Adjustment code |
|---|---|---|---|
| 1 | Manual exposure | 100% | 1 |
| 2 | Automatic adjustment of automatic exposure | 50 ~ 200% | 49 |
| *3 | Light (max.) | 100% or appropriate reproduction ratio | 9 |
| *4 | Dark (min.) | | 10 |
| 5 | Manual photo exposure | 100% | 14 |

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## News from Eastern Europe:

CEE ----> CartridgeLand / Russia

### CartridgeLand Bottle Integral Toner for Printers and Copiers

The Russian company CartridgeLand started bottling toner meant for remanufacturing laserjet and copier cartridges. The high quality of the product is reached through the use of high-quality toner from the German company Integral. The original package give the possibility to pour the toner directly into the cartridge without the need of other devices. The hole in the tube has the diameter of the cartridge's hole, which allows filling toner into the cartridge more effectively. The more efficient way is also reached with the help of the form of the tube. The material of the tube makes the filling process much faster without any predicaments. Recyclers can be sure the product is 100% reliable. Samples can be ordered at cartridgland@yandex.ru, or fax: +7 (863) 223-88-50.

----> Technoparts / Russia

### Results of the Tests of the Original Fuser Film for HP 4300/4250/4350

The Russian company Technoparts finished testing the original fuser film HP 4300/4250/4350 so as to identify its resistance. When the film was replaced the original HP grease was used. The tests showed great results. The fuser film was tested in high-volume printing regimens. The results of the tests are 300 000 copies.

www.tars.ru

----> Irwin / Russia

### Atrix Vacuums are Already in Availability

Atrix Express as well as replacement filters are already available in significant amounts, informed the Russian company IRWIN. If companies from Eastern Europe or Russia want to sell this product in their region, they are welcome to contact Irwin.

www.refilling.ru

CEE ----> SINT / Ukraine

### A New Authorized SINT-Master Center Was Opened in Belaya Tserkovi, Ukraine

The network of the authorized SINT-master centers continues its expansion in Ukraine. The company GERMA from Belaya Tserkovi (50 km away from Kiev) joined the franchising network. From April 2008 customers from Belaya Tserkovi can buy all Sint branded products as well as have their cartridges refilled or remanufactured in their own city.

www.sint.ua

CEE ----> V.M./ Ukraine

### Patron-Branded CISS for Epson Stylus C79 and Stylus Photo 1410

Two new CISS for the inkjects Epson Stylus C79 and Stylus Photo 1410 are offered by the Kiev-based V.M. to Ukrainian customers. The new CISS are sold under the Patron brand name.
The group of companies V.M. from Kiev released alternative solutions for users of inkjet printers popular in the country. The Patron CISS for the universal 4-color A4 printer Epson Stylus C79 and 6-color A3 photo printer Stylus Photo 1410 are equipped with cartridges: tanks with water-based inks and detailed step-by-step installation and refilling instruction in Russian.

Patron CISS help save on printing without losing on quality. The volume of each ink tank is 60 ml, which is by 10 times higher than in original Epson cartridges.

The Patron CISS product range counts 18 models of CISS for Canon and Epson inkjet printers.

www.patron.ua

## News from Eastern Europe:

CEE ----> WWM / Ukraine

### New Package for WWM 100x150 mm Photo Paper

Worldwide Manufacturing, E.D. presented a new package for its 100x150 mm photo paper. The package represents PP sacs with the European format converter. Thus, the paper packs can be freely placed on shelves, shop windows and booths.

Glossy, silky-glossy, semi-glossy photo papers have a blue line on the box; matt and silky-matt papers are with a red band.

www.wwm.ua

CEE ----> WWM / Ukraine

### Worldwide Manufacturing, E.D. to Hold Specialized Seminars for Its Partners

From Feb. 28 to March 21, 2008, the Ukrainian Worldwide Manufacturing, E.D. held a number of one-day seminars (6 seminars in total) on Photoprinting Complex Solutions. All the seminars were organized in the production site of the company. The attendees got familiar with the particularities of the supplies for inkjet printing offered by the company (inks, photopaper). They also took part in the master-class for CISS installation and use. The attendees were also offered to have guided tours within the company's premises: production, administration and warehouses. The ink manufacturing site drew a lot of interest from the attendees' side. At the end of each seminar the attendees were supposed to pass a test, upon whose successful passing the attendees would get a name-tagged certificate.

Over 200 specialists from Ukraine, Belarus, Russia and Moldova visited the seminars organized by Worldwide Manufacturing, E.D.

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WORLD ----> Faroudja / USA

## Faroudja Offers Bulk Toner for the HP 8500

Faroudja Toner has released color toner in bags for the HP 8500. 10 kilogram (22 pound) bags are sold for black, cyan, yellow and magenta, and can be purchased individually or in multiple quantities.

"The printer has been around for a while, but it was well made and we sell the bottles consistently." explained president Phil Faroudja. "We're now pleased to offer the toner in bags, which offer savings of 40%." The HP 8500 is easy to recycle and no smartchips are required, though there is a chip on the drum unit. Faroudja also offers an HP 8500 drum, drum smartchip, wiper blade and doctor blade.

Faroudja Toner, in San Carlos, California, additionally supplies a wide range of parts and recharging tools.

www.faroudjatoner.com

WORLD ----> Future Graphics / USA

## Future Graphics Comprehensive Systems Solutions Universal Drum Pin Removal Tool for HP®3000/4700™ Series Cartridges

Future Graphics, the industry leader in color technology, is pleased to introduce the patent pending Drum Pin Removal Tool for increasing the speed, efficiency and profitability of the remanufacturing process for HP®3000/3600/3800/CP3505/3500/3700™ and 4700/4730/CP4005™ color cartridges. It is one of the Comprehensive Systems Solutions™ (CSS) from Future Graphics.

HP®'s enormously successful line of color laser printers are a key factor in the worldwide growth of color. Remanufactured HP® color cartridges are increasingly in demand in the global marketplace.

Another innovative product created in the Future Graphics Research and Development Center, the patent pending Drum Pin Removal Tool (DRPINTOOL2) provides a quick, easy-to-use and reliable process for extraction and installation of drum spring pins in the wide range of HP® color cartridges. The improved, modular design of the tool protects OEM spring pins from splitting or mushrooming, a frequent result of other methods, and allows easy replacement of any damaged parts of the tool itself.

Complete instructions for using the Drum Pin Removal Tool, along with a demonstration video, are available 24 hours a day online at Future Graphics' award-winning website: www.futuregraphicsllc.com.

Patent pending, due diligence assured, the Drum Pin Removal Tool is in stock, ready to ship. Another part of CSS, Future Graphics' commitment to providing the ultimate value-add distribution to the remanufacturing industry.

www.futuregraphicsllc.com

WORLD ----> Future Graphics / USA

## Future Graphics Initiates High Density/Environmentally Friendly OPC Packaging to Reduce Transportation Costs and Space

Future Graphics, the global leader in value-add distribution, is proud to introduce high-density packaging to their customers worldwide. The same high-quality OPC drums will now be packaged utilizing a solution that saves money, storage space, materials, substantially lowers freight costs (double the number of units within the same volume on a pallet) and is good for the environment.

Styrofoam has been completely removed from the container in this new packaging process. The new packaging material provides the same level of product security, but requires less space. This means less overall packaging is used to ship more OPC drums per container. The new process allows a sixty percent reduction in overall packaging materials. Less packaging materials means less volume. This reduces shipping costs – a consideration with rising fuel prices – and the warehouse space required to store the product. All of this equals cost savings for everyone in the chain of supply. Moreover, the new packaging materials are fully recyclable.

The first two models of OPC drums being shipped in the new high-density packaging are the HP®1160™ and 1012™. Improved efficiency, lower shipping costs, lower storage volume, recyclable packaging materials, no Styrofoam. Cost savings. Future Graphics' new high-density packaging delivers it all.

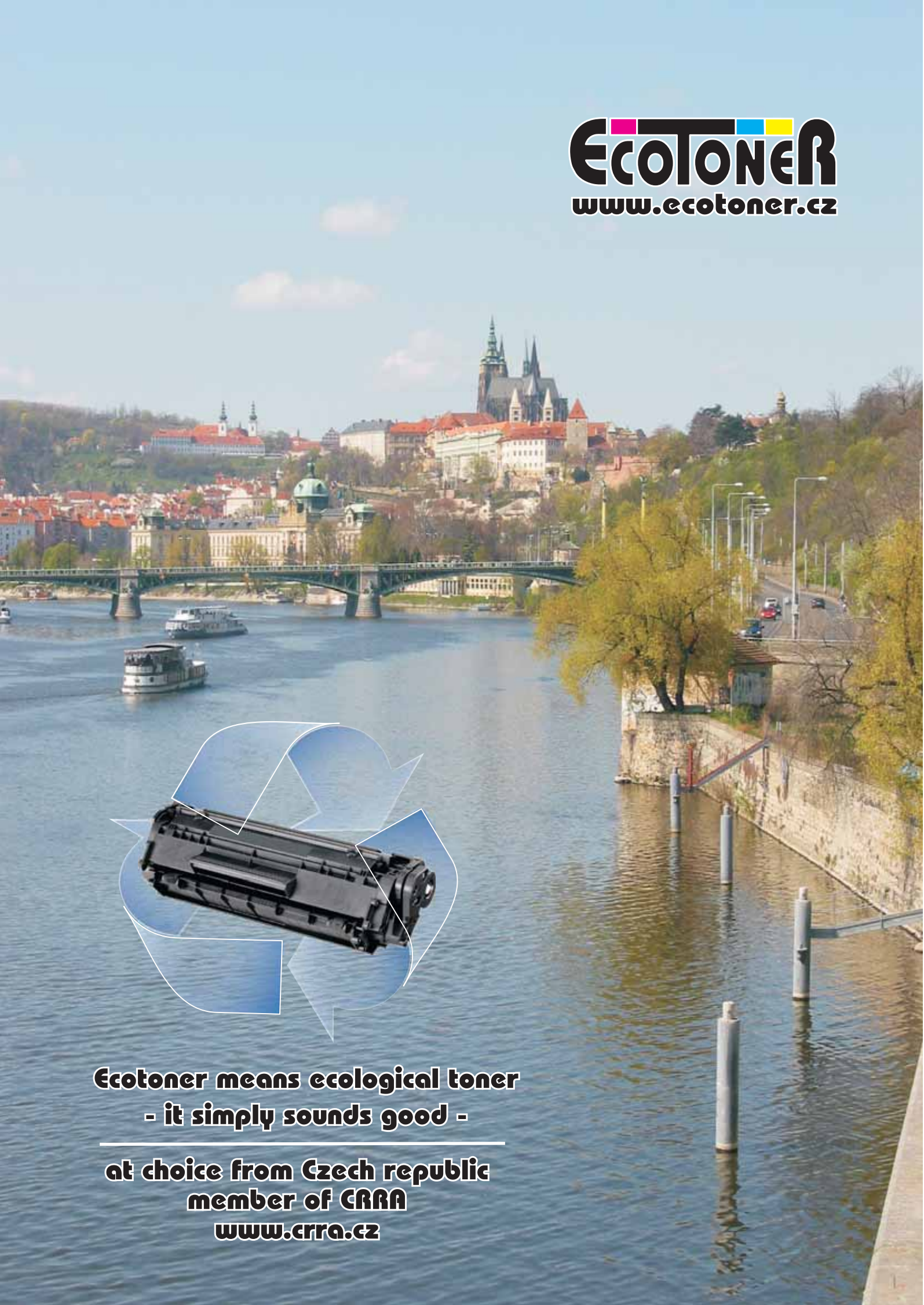
Dedicated to the remanufacturing industry, Future Graphics is always looking for ways to increase quality, add value, and improve service in distribution to the aftermarket. Whether you are doing 3,000 or 300,000 cartridges a month, Future Graphics is there for you with award winning technical support and customer service. Improving your business is our business.

WORLD ----> Future Graphics / USA

## Future Graphics Introduces Cost-Saving Seal Insertion System for Remanufacturing HP®2600™ Color Cartridges

Future Graphics, the global leader in value-add distribution, is pleased to announce a new Comprehensive Systems Solutions™ (CSS) patent pending seal insertion system for HP®2600™ color cartridges developed in the Future Graphics Research and Development Center.

The innovative Future Graphics seal insertion system for HP®2600™ color cartridges works without heat and without requiring the removal of the toner adder roll. Instead, the combination of fixture, tools and clamping mechanism properly aligns the new seal for maximum adhesive area coverage. This new system does not cause alterations of critical gaps and tolerances in the cartridge, reducing the potential for leaking/toner dusting. This patent pending solution is easy to use, saves time, avoids wasted seals and provides a fresh, high quality seal every time. Complete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instructions can be seen at Future Graphic's award-winning website: http://www.futuregraphicsllc.com.

A part of Future Graphics' Comprehensive Systems Solutions™, the seal insertion fixture and tools set (HP2600SEALCSS) enhances the complete matched system for remanufacturing the cartridges of this popular line of home and small office color printers. It works in conjunction with: the Future Graphics drum-cutting tool (HP2600WHHOLD) and securing fixture, which allow safe and easy removal of the OPC without damaging the waste hopper: The toner hopper drill hole guide and custom hole saw (HP2600THHOLD) that avoids damage to the toner cartridge interior ribs or sweeper blade and matched toner, drums, chips and blades. Used properly, the total system saves time and reduces the risk of cartridge damage to zero for increased profitability.

www.futuregraphicsllc.com

WORLD ----> MSE / USA

## MSE Releases Universal Compatible Cartridges for HP 42X

Micro Solutions Enterprises (MSE) has released High Yield and Jumbo universal cartridges for HP's Q1338A, Q1339A, Q5945A and Q5942X laser printers.

These high yield and jumbo cartridges are manufactured using MSE's patented Ultrasonic Welding Technologies and are universally compatible with the HP 4200, 4250, 4300, 4345mfp and 4350 series printers.

MSE's 42X High Yield Universal cartridge produces an average yield of 20,000 prints at 5% coverage while the 42X Jumbo Universal delivers an exceptional cost per page value of 28,000 prints at 5% coverage.

MSE cartridges are made in the USA and are available for outsourcing and private label.

MSE manufactures and distributes a full line of compatible toner cartridges, MICR toner cartridges, inkjets and thermal transfer ribbons. MSE is known for high quality toner cartridges, innovation in the industry and outstanding customer service; having been voted #1 for three years in a row by the readers of Recharger Magazine. MSE's manufacturing capacity now exceeds 300,000 toners and 500,000 inkjet cartridges per month. MSE owns and operates more than 250,000 square feet of space at its facilities in California and Pennsylvania as well as additional distribution facilities in Canada, Holland and Brazil.

The company offers full solutions for outsourcing, private labeling, private packaging and blind drop shipping. MSE also offers a suite of high-end marketing tools and extensive product and sales training.

www.mse.com

WORLD ----> Oasis Imaging / Netherlands

## Oasis Releases Products for the HP 5200 Series

Oasis Imaging Products continues to expand the product range with products for the HP 5200 series. The products for this popular monochrome A3 LaserJet Printer include toner, drum, blades and chips.

The Oasis toner for the HP 5200 is available in 550 grams bottles (# 52TN10550). This toner when matched either with the OEM drum or an Oasis Optima Drum provides an output of 10% more than the stated OEM yield. Oasis will release the 52TN10700, for use in the HP 5025mfp and 5035mfp machines, next month.

Oasis also released the Optima OPC Drum (# 52DR2150), Doctor Blade (# 52DB20), Doctor Blade Wiper (# 52CP10), Wiper Blade (# H5WB20), Recovery Blade (# H5RB10), Metal Cartridge Pins (# 52PN10) and a 12K Yield Chip (# 52CH10). These high quality components offer consistent, OEM-like page yield and image density.

To order, or for more information about replacement products offered by Oasis for the HP family of printers, contact your Oasis office at +31 24 3882233 or visit www.oasis-imaging.com.

### About Oasis Imaging Products:

*Oasis Imaging Products is a leading supplier of components for remanufacturing toner cartridges. Oasis Imaging Products was founded in 1988 in the USA and currently has offices in the USA and Canada, while the European market and distributors in Africa and the Middle East are being served from the Netherlands. Oasis and you...succeeding together!*

www.oasis-imaging.nl

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WORLD ----> Tiara Group / USA

## Industry Stars to Shine at Santa Barbara Toners & Photoreceptors Seminar

The Tiara Group, LLC proudly announced its 25th Anniversary Toners & Photoreceptors Seminar, slated for Fess Parker's DoubleTree Resort (a Hilton Hotel) in Santa Barbara, California. This landmark event will feature an array of industry leaders both on the podium and in the audience.

Among the outstanding talks to be presented are a comparison of chemical process technology (CPT) against conventional and rounded toners by one of Xerox's leading toner scientists; a discussion of the European Union's REACH program to ensure the safety of office and plant workers handling toner and ink jet materials; a review of toner and photoreceptor production in Asia; an overview of cartridge remanufacturing in Latin America; an analysis of changes that have occurred in the toner industry over the past 25 years; and a look at trends and directions in the market for toners and photoreceptors by two of the industry's leading forecasters.

"This year we will devote special attention to the Global Green transition and its impact on toner technology and markets," said Tiara's Chairman, Art Diamond. "In recent years," he added, "consumers around the globe finally got the message: We must protect and preserve the environment for ourselves, our children, and future generations. Acceptance of this responsibility, in the hearts and minds of the world population, has grown to the point where disposability is now a key requirement of any purchase or product acquisition. For every consumable and every hardware item—paper, ink, toner, batteries, lighting fixtures, printers, copiers, CD and DVD disks, automobile tires, cell phones, etc.—there must be a means for safe and economic disposal. Putting it in other words, as consumers continue to grow more environmentally aware, and as they begin to understand the importance of sustaining our ecology, they are developing a passion for the benefits of recycling."

"Dr. Harvey Levenson, Head of the Graphic Communication Department at Cal Poly State University will advise attendees on 'How the Imaging Industry is Going Green,' DuPont's Global Marketing Manager, Ms. Carolyn Burns, will discuss 'Recyclable vs. Biodegradable Substrates,' and General Chairman Dr. Brian Springett will moderate a Panel on 'How Green Can the Worldwide Toner Industry Become?'"

Registrants will also be brought current on the state-of-the-art and the state-of-the-business directly from an international group of scientists, market analysts, and corporate executives. This information is vital to strategic planning for future company activities and affiliations.

Seminar Chair Dr. Brian E. Springett, joined with Tiara Group's Chairman, Art Diamond to construct a most pivotal and timely program for this event. All Sessions planned for the 2008 Seminar are listed in the Program Highlights shown below.

This powerful, cutting edge program (watch for any changes on www.thetiaragroup.com) will once again bring together the world's leading producers of dry and liquid toners, carriers, and developers, as well as photoreceptor drums, belts and other machine components for the imaging industry.

Kicking off the June forum will be two of Xerox's senior scientists, Dr. Scott Silence and Dr. Andronique Ioannidis with updates on toner and OPC technology, respectively. Top industry analyst Charles Brewer, Managing Editor of the Hard Copy Supplies Journal at Lyra Research will explore trends and directions in desktop imaging and and John Shane, a Director of InfoTrends, will analyze the market for toners and photoreceptors.

Keynoting this unique Seminar will be Art Diamond, Chairman of The Tiara Group, LLC with a wrap-up of the past 25 years on the development and evolution of electrophotography.

Talks by Dr. Hou T. Ng of Hewlett-Packard Labs on the status of HP's Indigo Process, and by Dr. Eida Akihiro of Kao Corporation on how polyester toners can improve color image quality will be of special interest to many attendees.

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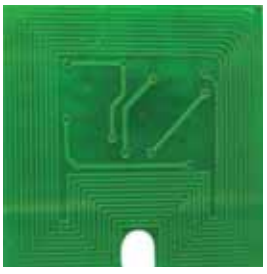
WORLD ----> Hi & Bestech / Taiwan

## Hi & Bestech Adds New Chip for OKI 5600/5700 Laser Printers

Hi & Bestech Company announces the release of new compatible replacement RF-chips for Oki 5600/5700 printer's toner cartridges.

OKI C5600n printer's printing speed up to 20 ppm (color printing) and 32 ppm (monochrome printing), monthly duty cycle up to 60,000 pages and print resolution up to 1200 dpi x 600 dpi.

OKI C5700dn printer with full-color printing at up to 20 ppm, monochrome at up to 32 ppm, and 1200 x 600 dpi resolution, monthly duty cycle is 60,000 pages..



Our chips are suitable for the toner cartridge numbers ---43324408/ 43324412 (6K page yield black toner cartridges), 43381907/43384907 (2K page yield cyan toner cartridges), 43381906/ 43384906(2K page yield magenta toner cartridges) and 43381905 /43384905 (2K page yield yellow toner cartridges).

As an industry partner on chip solutions, our team is composed of qualified engineers with more than 20 years on ASIC chip design, reverse engineering and cost- effective production. Our full lines of chips are full emulation with 100% functionality but unique circuit and firmware design from OEM chips for Intellectual Property protection.

www.tonerchips.com

WORLD ----> Hi & Bestech / Taiwan

## Hi & Bestech First to Market Chip for OKI 5500/5800/5900 Toner Cartridges

Hi & Bestech company announces the release of new compatible replacement RF-chips for Oki 5500/5800/5900 printer's toner cartridges.

OKI C5500n printer's printing speed up to 20 ppm (color printing) and 24 ppm (monochrome printing), monthly duty cycle up to 60,000 pages and print resolution up to 1200 dpi x 600 dpi.

OKI C5800Ldn printer with fast full-color printing at up to 24 ppm, monochrome at up to 28 ppm, and 1200 x 600 dpi resolution for clear, sharp, beautifully detailed output.

OKI C5900n is up to 1200 dpi x 600 dpi, and printing capacity could be up to 32 ppm (mono) / up to 26 ppm (color).

Our chips are suitable for the toner cartridge numbers ---43324404 / 43324424 / 43324448 (6K page yield black toner cartridges), 43324403 / 43324423 / 43324447 (5K page yield cyan toner cartridges), 43324402 / 43324422 / 43324446 (5K page yield magenta toner cartridges) and 43324401 / 43324421 / 43324445 (5K page yield yellow toner cartridges).

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WORLD ----> Katun / Netherlands

## Katun Corporation Presents a New Generation of Products at Remax

Katun Corporation, the world's leading aftermarket supplier of imaging supplies and parts for office equipment, will demonstrate its latest product innovations and developments at Remax, in Dusseldorf, Germany, from April 10-12, 2008.

Remax is the biggest European trade show for the remanufacturing industry, bringing together printer cartridge remanufacturers from all over the world. With visitor numbers increasing year-on-year, and attendees eager to forge new business contacts, the event serves as the perfect platform for Katun to communicate its new solutions to the industry and its peers. The Katun booth will be located in Hall 14, stand B300.

WORLD ----> Katun / Netherlands

## Katun Provides Efficient Solutions for Controlling Printing Costs

In 2007, Katun introduced the Print Software Solution (PSS), developed by docuFORM GmbH Germany, that supports cost documentation and cost optimization as well as printing, service and logistics management for all networked printer and copier systems. The software solution enables specialized office equipment dealers to significantly benefit from optimization and simplification of their sales and service activities. Dealers are able to gain new customers and grow their existing customer accounts, increase their strategic value with customers and improve overall financial performance. End users can benefit too, profiting from savings on direct and indirect printing costs.

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- *sublimation ink and toner for printers*
- *equipment for cartridge remanufacturing and recharging*

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A unique selling point of the software is that it records actual usage and offers useful improvement measures. Depending on the definition of adjusted parameters for printing jobs with a certain number of pages, the information will be automatically sent from a desktop printer to a workgroup printer. Recent research conducted by Katun has determined that 20 to 30 percent of the total printing volumes of desktop printers can be transferred to more cost-effective systems. Based on the costs of print per page, end users can save between 15 to 20 percent of their overall printing costs by installing PSS.

**WORLD** ----> **Katun / Netherlands**

## Katun Also Provides a Solution for Minimizing Fine Dust Emissions

Katun Corporation has also recently entered into an exclusive arrangement with Dexwet Technology GmbH in Austria to distribute Dexwet's filtering systems. Analytical testing from leading aerosol scientists and environmental experts SHOWS THAT Dexwet filtering systems significantly reduce fine dust laser printer emissions, resulting in fewer airborne particles and less indoor air pollution.

Dexwet recently introduced the new "Simular One – DEX 1000" and "Modular Professional – DEX 2000" filtering systems, designed for even further simplified installation on machines with out-blowing fan exhaust openings. The new filtering systems work in a wide range of laser printer applications, and are LGA (Landesgewerbeanstalt / a Public Law Corporation, Nurnberg / Germany) - certified and OFI (Austrian Research Institute) - inspected. Offering an exceptional filtering efficiency, combined with a long service life, they are also compatible with a wide range of printer applications, including the majority of today's most popular laser printers and copiers.

The new technology provides a solution package – combining PSS and Dexwet filtering systems – that minimizes enterprise printing costs and fine dust emissions from laser printers. During Remax 2008, Katun will take the opportunity to further elaborate on the specific details of this cooperation and the innovative technology surrounding this new product solution.

**WORLD** ----> **Katun / Netherlands**

## New and Innovative Product Offerings on Display at Remax

Katun has developed several new products that they are proud and excited to introduce to the industry, including Katun® Performance™ colour toner cartridges for use in Samsung CLP 500/550 and CLP 510 applications. These new cartridges provide consistent toner transfer, resulting in clean, crisp colour prints without compromising toner yield. By launching these new colour toners, Katun further commits itself to providing customers with a high quality/ best value colour product offering – for both copier and printer applications.

Katun will also introduce several Katun Performance brand toner cartridges, including high-quality new products for use in HP Colour Laserjet 2600, 3600/3800, and 4700-series applications, HP Laserjet 2015 and 3005-series, Samsung CLP 300-series, and Kyocera Mita FS-1920 (TK-55) and FS-3820-series (TK-65) printers.

**WORLD** ----> **Katun / Netherlands**

## Exploring Trends, Innovations, and Opportunities

Karl Cerny, senior vice president and general manager of the company's Europe/ Africa/Middle East business unit, is looking forward to Remax: "Remax is an important event for us, as it serves as a perfect communication platform with our peers in the industry. A lot of things have been moving and shaking at Katun, especially with the docuFORM and Dexwet cooperation.

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In addition to the development of new products, these cooperative efforts contribute strongly to a general evolution toward more environmentally-friendly office supply solutions for the future."

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For information on all of Recharger Magazine's products and events visit: **www.rechargermagazine.com**

WORLD ----> UNINETI / USA

## UNINET MICR Toners for HP 1320, 1160

Los Angeles, CA – UniNet R&D announces the release of new MICR (Magnetic Ink Character Recognition) Toners that have been tested and approved for use in HP 1320, 1160 monochrome printers. The latest toners have been specially formulated for high yield (280 gram) OEM Q5949X cartridges rated 6,000 pages. R&D testing based at 5% coverage on letter size paper using STMC methods.

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WORLD ----> UNINETI / USA

## UNINET MICR Toners for HP P2015

Los Angeles, CA – UniNet R&D announces the release of new MICR (Magnetic Ink Character Recognition) Toners that have been tested and approved for use in HP P2015 multifunction printers. The latest toners have been developed for standard yield OEM Q7553A cartridges, rated 3,000 pages per 120 grams at 5% coverage.

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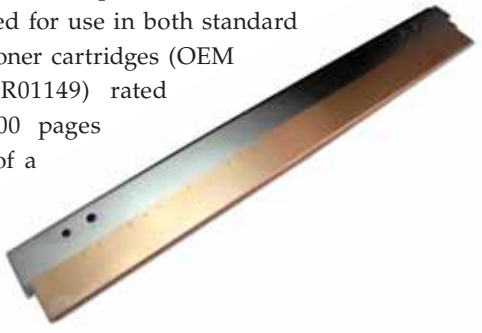
WORLD ----> UNINETI / USA

## UNINET Adds Doctor Blade for XEROX PHASER 3500

UniNet R&D announced a new doctor blade product released for the Xerox Phaser 3500 printer. The doctor blade has been qualified for use in both standard and high yield toner cartridges (OEM 106R01148, 106R01149) rated 6,000 and 12,000 pages at 5% coverage of a letter size page.



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WORLD ----> UNINETI / USA

## UNINET LOW/HIGH YIELD Toners for BROTHER TN330, 360 Cartridges

UniNet announced the release of Absolute Black Toners, tested and approved for cartridges used in Brother HL 2140, 2170 Graphics printers. The new toners have been specially developed for the TN330 starter cartridge, rated at 1,500 pages (65 grams), and for high yield TN360 cartridge, rated 2,600 pages (90 grams) at 5% coverage.

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WORLD ----> UNINETI / USA

## UNINET HP P3005 Compatible Low/High YIELD Toners & UNIDRUM OPC

UniNet R&D announced the release of Absolute Black Toners, tested and approved for use in HP P3005, M3027, 3035 printers. The new toners have been formulated for standard OEM Q7551A cartridges rated 6,500 pages per 305 grams, and high-yield OEM Q7551X rated 13,000 pages per 610 grams at 5% coverage.

UniNet also released Unidrum OPC with gears, developed for use in HP P3005, M3027, 3035, OEM Q7551A, and OEM Q7551X toner cartridges rated 6,500 and 13,000 pages. The UniNet OPC has been tested and approved for compatibility with all Absolute Black Toners, Smartchips, Seals, and recycling components for this printer.

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OEM ----> HP

## HP Recycles Plastic Bottles and Makes New Cartridges of Them

HP informed officially about its new engineering breakthrough, which allows to re-use plastic bottles for the manufacturing of new inkjet cartridges.

HP also informed that up to 200 million cartridges have already been produced owing to this technology until today. In 2006 HP reused over 2300 tons of plastic from recycled plastic bottles and old cartridges. In 2008 HP plans to double this amount.

HP inkjet cartridges reused within the Planet Partners eco program pass through a multi-level reutilization process, which results in plastic and metal output. Then HP combines the plastic with the plastic of recycled bottles and adds necessary additives, which finally forms the high-quality raw material used in the production.

HP mentioned that the recycled plastic in its cartridges can vary from 70% to 100% depending on the cartridge model. The Planet Partners program exists in over 40 countries.

Source: www.hp.com

OEM ----> XEROX

## Xerox to Acquire Veenman

Xerox announced a definitive agreement for Xerox to acquire Veenman B.V., a subsidiary of Corporate Express, for approximately $68 million (€43 million) expanding Xerox's reach into the small and mid-sized business market in the Netherlands. Veenman, with six offices located throughout the Netherlands, is the country's leading independent distributor of office printers, copiers, and multifunction devices serving small and mid-size businesses.

Founded in 1919 and headquartered in Capelle a/d Iissel, the Netherlands, Veenman has recently expanded to provide document management software and consulting support to its customers. As an office technology dealer, Veenman sells products from various suppliers, none of which today include Xerox. In addition to its existing offerings, Veenman will start selling Xerox document management products following the close of the acquisition.

By acquiring Veenman, Xerox will more than double its sales force in the region and gain access to more than 4,000 SMB customers. In the past year, Xerox has significantly expanded its distribution to the SMB market through broadened relationships with resellers and concessionaires in Europe, and through the acquisition of Global Imaging Systems in the U.S., which gave Xerox access to 200,000 new SMB customers.

www.xerox.com

OEM ----> XEROX

## Xerox Named No 1 Cut Sheet Paper Brand in Europe

Xerox was named the number one paper brand for cut sheet paper in Europe for the fifth year running, according to research by Opticom International Research. The industry standard benchmark survey for office paper brands has been conducted among more than 4,000 professional end users across seven countries in Europe.

Opticom's Brand Equity Index is a complete approach to strategic branding. It assesses the impact of individual office paper brands, benchmarks the leading brands against each other and evaluates the success of individual brand strategies over time using four key drivers of brand equity: spontaneous awareness; top-of-mind; qualities and associations; and loyalty.

In Europe, Xerox has recently enhanced its range of papers and now offers customers the widest variety of environmental papers in the market:

Planet Optimum is the first Xerox branded Forest Stewardship Council certified product in the market. With a high level of whiteness, Planet Optimum contains over 30% post consumer waste and is totally chlorine free bleached, offering a bright white, high quality paper with very strong sustainability credentials.

The Xerox Recycled range has increased considerably in recent months and the introduction of Recycled Optimum offers customers a 100% post consumer waste sheet, with the highest whiteness level offered in the Xerox Recycled portfolio. Sitting just below Recycled Optimum in whiteness levels comes the Recycled Pure +, another 100% PCW sheet, certified to both Blue Angel and Nordic Swan environmental standards.

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# PRINT HAPPY with HAPPY PRINT from Russia

The Russian company Happy Print is one of the leading companies from the Central and Southern part of Russia. The mission of the company is to assure constant printing of document in a client's office as well as to offer complex solutions for any problem connect with printing devices and consumables to them. Happy Print also sells other devices, paper, consumables for copiers, fax machines, printers and MFUs as well as for plotters, digital duplicators, laminators and other printing equipments needed and used in a contemporary office.

Happy Print supplies service centers and specialists with necessary spare parts and equipment necessary for the process of repairs of printing equipment and cartridge remanufacturing. The company also shapes the whole range of printing fleet to fit the customer's need by focusing merely on the reputed, reliable and economical equipment. Happy Print also offers selection, maintenance and repairs services. Happy Print is also active in remanufacturing of the most popular cartridges in the region. The company also deploys a lot of efforts in order to educate its clients of how to use properly their printing equipment.

The main offices of the company are located in the Orenburg and Samara regions of the Russian Federation, Moscow and Kazakhstan (Aksay). Its location is one of the advantages: as the company is located in the frontier region, it can freely work with both Russia and Kazakhstan customers. The people in the company think that location as well as well-established communication and infrastructure allow making business in any part of the world.

Happy Print works with a lot of partners and suppliers, who are leaders in their fields. These are: Colortek, Hewlett-Packard, «XT», «Mirex», «HANDSOME», «BROTHER», «XEROX», «VTT». The company is the official HP Supplies Partner. This means the company is part of the selected HP partners, who offer HP original supplies at the lowest price and also guarantee 100% original supplies. Happy Print is the only Brother service center in the region, where warranty and post-warranty services for fax, MFUs and printers are offered.

The company sells mainly in Orenburg and Samara regions, Moscow and in Kazakhstan.

Here is the chronology of the most important events in the company's history:

- *2001 – A warehouse of printing supplies is established in Orenburg. The distribution department for printing supplies is opened.*
- *2002 – The beginning of the official partnership with Hewlett Packard.*
- *2003 – Official partner status from Hewlett Packard. The Internet site with a catalogue of products is set up.*
- *2004 – The trademark Happy Print is registered. The constant production and sales of cartridges under this trademark. A service center for copiers is opened. The company obtained exclusive rights for selling Mirex branded products.*
- *2005 – A new empties-collection office of the company in Orenburg is opened. The office in Aksay, Kazakhstan is opened.*
- *2006 – The company got the status of the authorized Brother and Lexmark center. Exclusive rights for Colortek products.*
- *2007 – A new office for corporate customers is opened in Orenburg.*
- *2008 – Restructuration of the company began.*

Today Happy Print refills and remanufactures over 1000 cartridges per month. Happy Print branded cartridges are also produced. Due to the high volumes and good quality the company is one of the leaders in the region, it being in constant development and working to meet the customers' expectations.

Happy Print takes part in all regional exhibitions of manufacturers, visits all Russia expos, including RechargEast exhibitions organized in Moscow.
RechargEast asked several questions to the managers of the company. The answers of the questions are presented below:

## RECHARGEAST: WHAT ARE THE PRINCIPAL POLICIES OF YOUR COMPANY?

### Happy Print:
Quality Policy. Do not accept any defect, do not produce defect, do not pass defected production up the line.

### Price and discount policy.
Our prices are not the lowest ones. The price is not the way to the client's heart. But we can lower our prices on purpose only if it is the mandatory condition for starting collaboration with a strategic customers. Happy Print values long term relations

### Distribution policy.
Happy Print offers a complex solution – constant printing of documents. We put complex solution in priority. Happy Print does its best to bring this idea to the client. But if the client is interested in a certain product or service, the company offers it and prepares the client to the following level.

### Logistics policy.
Happy Print believes that transportation and logistics require expenses. The company always optimizes any transport expenses so that they do not influence the final price of the

product. That's why the whole transportation of the product to the client is well thought. Happy Print also counts on the stock, which excludes any rupture in the supply chain and any delay in the delivery of the product.

**RECHARGEAST:**
**HOW DO YOU MOTIVATE YOUR STAFF AND HOW DO YOU PASS THE CORPORATE VALUES TO THEM?**

**Happy Print:**
**Total policy of motivation:**
Our company builds the motivation according to the following principles:
- all the money a person earns is EARNED by this person and s/he understands that;
- we stimulate the constant professional growth and skills improvement. Happy Print invests in its staff, who are the main factor of the company's success and growth.

**Adaptation policy:**
Happy Print orients all its staff members, especially the new ones, to have concrete objectives and gives them all details as well as trains their skills. Happy Print adapts the person to the position by explaining how the company works and how it reaches its goals.

**RECHARGEAST:**
**HOW DO YOU HIRE IN YOUR COMPANY?**

**Happy Print:**
Happy Print hires young people, who have never worked in the field before. The company is interested in goal-driven, energetic, dynamic people, who want to grow with the company.

The addresses of the company's representative offices are:

**Russia:**
Orenburg, Pobeda Ave., 162/3,
tel: +7 (3532) 75-01-12, 75-22-27

Orenburg, Avtomatiki Ave., 17,
tel.: +7 (3532) 755-999

Samara, ul. Glavnaya, 23,
tel. +7 (846) 3329128, (846) 3329133

**Kazakhstan:**
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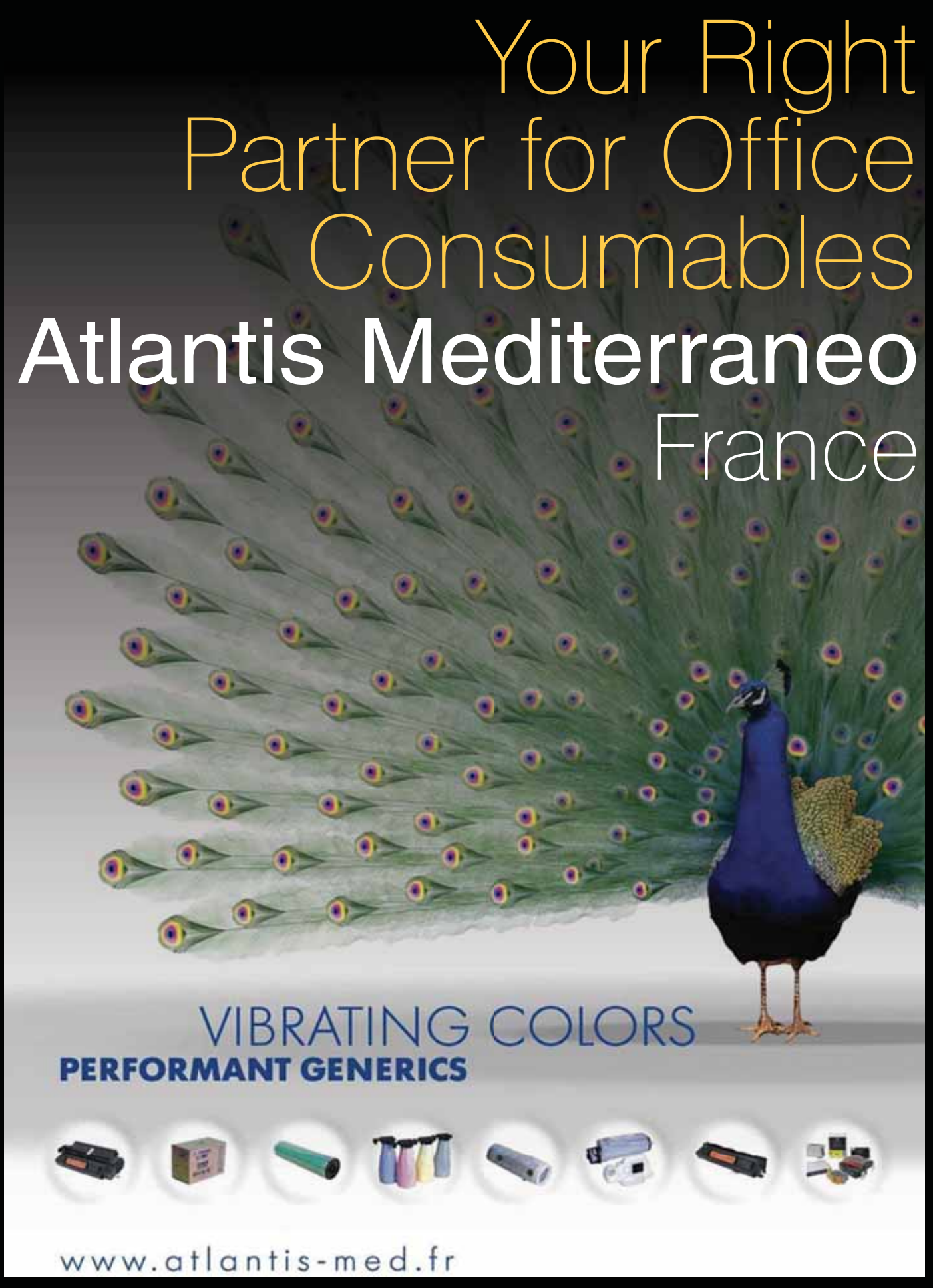
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Atlantis Mediterraneo is a French company with the headquarters in the south of France - Sorgues Industrial Zone (near Avignon) - dealing in office consumables, in several countries of Europe, North of Africa and Middle East. The company brings to its clients service, years of experience in the field of generic consumables for copiers and printers.

Following its experience the company had the possibility to test various suppliers from Europe, Asia and the USA. As a result of a thorough analysis of the product quality, the business volume and long term partnership with the main world-wide manufacturers are added and reflected in the offer that the company presents today.

The company offers various ranges of products: from copier finished products to refill toner bottles. In 2003 Atlantis built a new warehouse and production facilities, which covers the manufacturing and storing capacity required by the company's development plans for the following 7 years. The total stocking capacity is of 590 europallets h=2m, for a total area of 1 000m$^2$, and 250m$^2$ of offices. Atlantis uses Per Fill machines for cartridge filling, suction and compressed air installations, equipments for controlling the finished products.

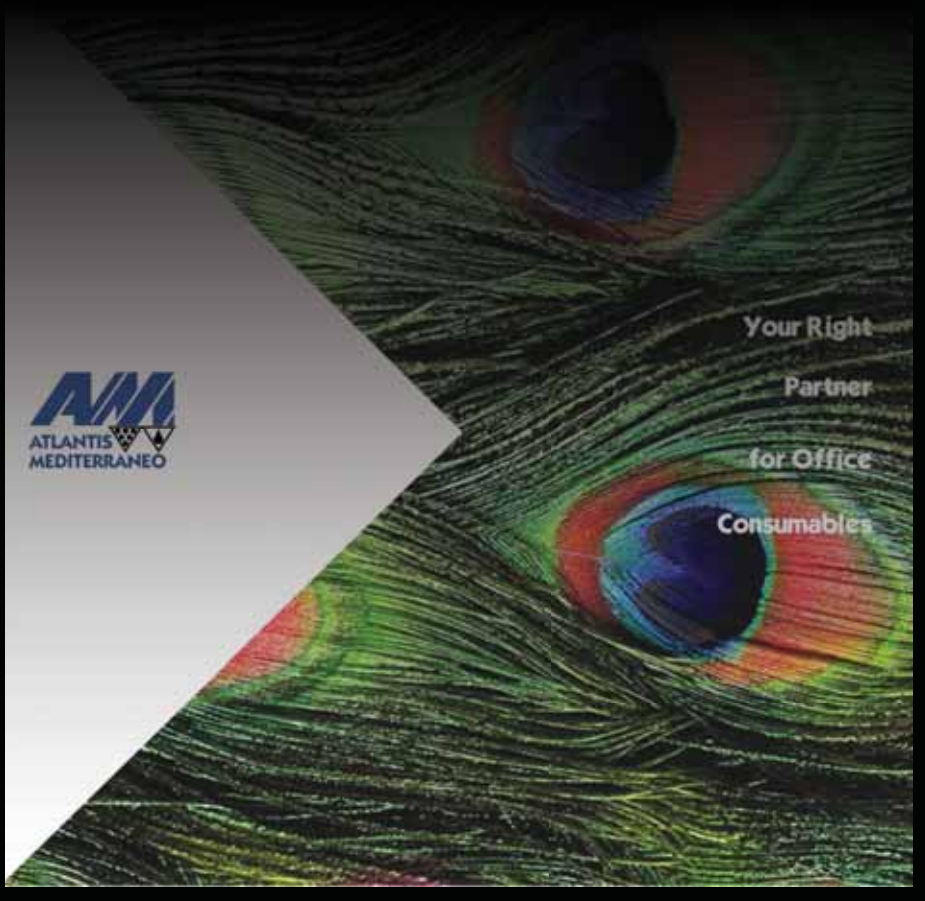
The company uses performing data base for management information, production and sales system, and is also equipped with a video supervising system of the plants.

## EXPERIENCE

As a purchasing entity Atlantis Mediterraneo studied the evolution of the main manufacturers; confronted with the new digital technology, their investments in production capacity and development of new and performing generic products.

Chemists relentlessly search the world for raw materials that meet exacting performance standards, using advanced analytical equipment and comprehensive testing procedures they formulate optimal toner solutions.

The company combines experience in supplying analog and printer toners to bring its customer the latest digital toners. The company also paid attention to the custom procedures related to the enlargement of the European market (EEC) and mostly to those Eastern European market, adapting its services to the new custom regulations and logistical news.




## QUALITY

All of the company's manufacturers are worldwide known, ISO certified and OEM's suppliers and are skilled in the requirements of single and dual component, magnetic and non magnetic developing systems.

Atlantis Mediterraneo products meet the standards imposed by the equipment manufacturers and if used in an identical way the overall performance of the copy's quality and quantity is identical with the one obtained by the products named originals. The products are manufactured and tested according to the standard quality specification. Positive and negative toner formulation, single and dual component, conventional or polymerized toner for digital technology is included in the product range, offering optimal solution for each device.

## TRACING

Every lot delivered by the manufacturer has an identification code. This is traced and registered up to the finished product. By this code each and every finished product receives data regarding:

• manufacturer;
• filling date and place;
• temperature and humidity values during production.

## GUARANTEE

In case the client is not satisfied with the product performances and returns the goods within 6 months after the purchase, in good conditions and without supplementary costs, financial compensation of the respective amount is accepted, if the products are handled and used according to Atlantis Meditterraneo's and the machine manufacturer's instructions.

## SALES POLICY

The company sticks to a limited number of dealers on each market, protecting and supporting them in sales. The important price difference is generated by:
• partnership with the same manufacturers which cooperate with OEM and which use part of their production capacities for the generic market.
• elimination of costs for basic research
• reduced costs for the development of an already existing product.

The price of the Atlantis Mediterraneo product covers only the cost of its production and
not the cost of the copier, printer, fax, product launching, advertising campaign or the costs of
sustaining a heavy administrative structure.

## ECOLOGY

Following the directive 2002/95/CEand 2002/96/CE of the European Parliament dated 27-th of January 2003 the products that the company sells are not waste, toxic and are not harmful to health or to the environment if they are properly stored, handled and used according to their usage.

The label NF Environment is the official mark of the product's ecological quality. This label is granted by an independent organization (AFNOR CERTIFICATION) and offers a double guarantee: that of quality in using the product and that of limited impact of the product to the environment.

Participation in fairs and trade shows

The company has been participating as « Gold Sponsor » at the seminars organized by RechargEast in Romania, Poland, Serbia, Hungary, Czech Republic and Slovakia.

## PLANS

Atlantis sees itself as a company working all over Europe and especially with the countries of Central and Eastern Europe. To contact the company please refer to the information below:

**ATLANTIS MEDITERRANEO**
370, Avenue Thomas Edison
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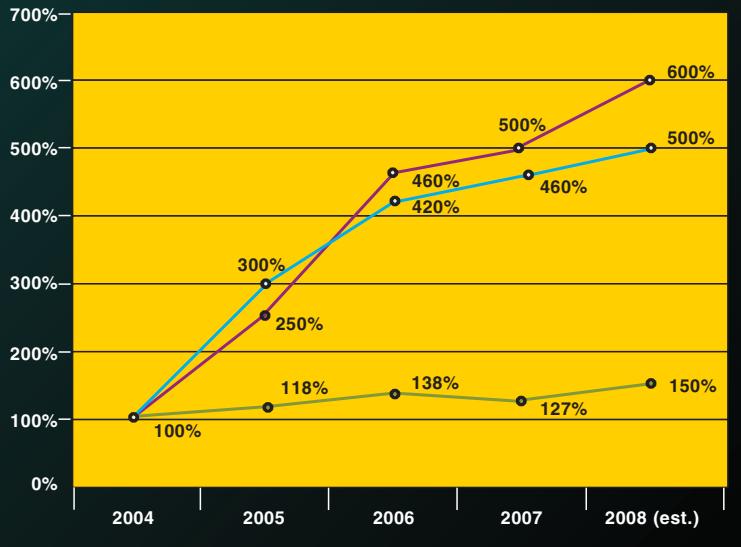


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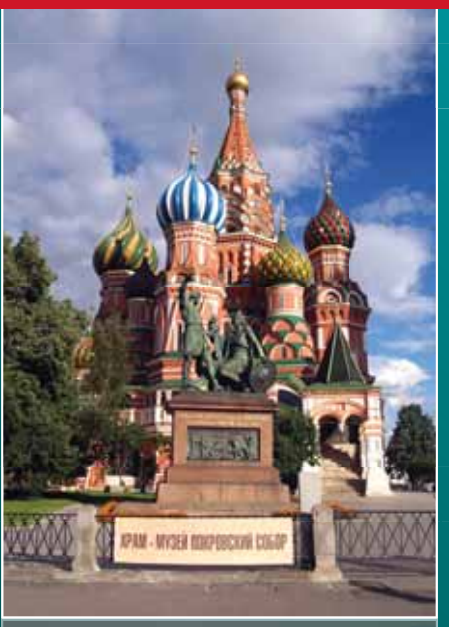

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# THE REAL COMPATIBILITY OF COMPATIBLE CHIPS

*Marius Dobra • ANMADO, Romania*

Compatible chips are, actually, emulations or, to put it simply, imitators of original chips. Based on a microcontroller (PIC, ATMEL, TI, etc.) with supplementary software and using its own EEPROM memory for storage of certain data, compatible chips reproduce certain functions of the similar original chip at the input/output level. Please note that these are certain functions, as original chips possess more functions/commands, which are not utilized during the process of communication with the printer.

From here comes the first conclusion: chips « for use in » are NOT 100% compatible with the original chip, but they must still fulfill 100% of the functions meant for the communication with the printer. In practice a specialist can encounter frequently such situations, when the emulation of the partial set of functions/commands utilized by the original chip in communication with the printer's processor is not close to 100%. In such cases the compatible chip can have impact on the functioning of the printer/cartridge during its working period. These cases are conditioned by a number of causes:

a) the software installed in the controller is simply badly or incorrectly written and is full of « bugs ». Like with computer programs, a compatible product is a product released to the market before it's tested properly or the programmer was not very skilled and created what he was able to.

b) the timing (chip's response rate) is limited and, in certain situations, the chip may omit commands or delay with response in the communication protocol.

c) instability in compatible chip power supply. There are original chips, whose power supply source is intern and which receive the necessary power supply from the command impulses. As a rule, microcontroller-based compatible chips need a power supply source (of increased capacity in the majority of cases), which is created from separate components on the chip's plate. There are situations, when the source cannot generate necessary energy for the adequate functioning of the chip or it absorbs a bigger volume of energy from the command impulses, thus causing disturbance throughout the communication channel.

d) modifications in the firmware of the printer. As shown, compatible chips emulate just a part of the functions of the original chip, which are necessary for the communication with the printer. If the manufacturer introduces a new type of firmware for the existing equipment or releases new equipment with old types of cartridges to markets, it can modify the set of functions/commands used for the equipment while communicating with the chip. Thus, all original chips (and OEM cartridges) will still function even in old cartridges as they have relevant commands inside, which were not used previously. As for a compatible chip, things go wrong here as it has never had such hidden functions. Therefore, all such (compatible) chips existent in the market will stop functioning in the new equipment.

These issues can cause functioning problems in compatible cartridges:
- the equipment rejects the cartridge and an error message comes on;
- errors or anomalies in data monitoring for the number of printed pages and consumed tone levels;
- sudden stops/errors;
- modifications in the functioning of the printing device;
- negative influences in the process of calibration and stabilization of the printing density (especially in color).

As a conclusion, it is possible to say to in order to have a compatible chip with functions similar to those of an OE product; the manufacturer of compatible cartridges is to make good choice of suppliers of chips, who offer well tested and stable chips. Just to avoid such cases, we recommend to use, wherever it's possible, OEM chips well reset.

**About ANMADO:**

*ANMADO is a Bucharest-based company. The company is active on the aftermarket of imaging and printing supplies for over 14 years. The company offers various remanufacturing and refilling services and solutions for laser and inkjet printers, fax and copying machines.*

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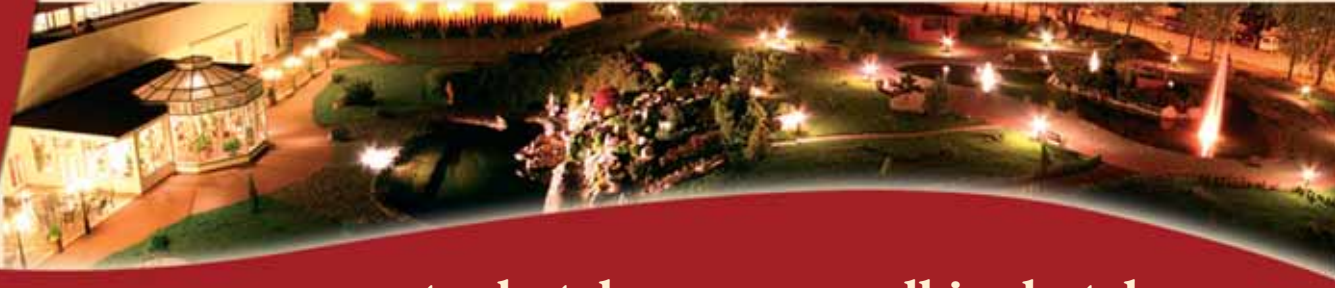

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